

**Transportation Improvement
Program and
Air Quality Conformity
Determination**

Fiscal Years 2004-2008

The comment period for this document will close
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* Address comments to the Chairman of the Boston
MPO Transportation Planning and Programming
Committee via any of the means shown on the
inside cover of this document.

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Central Transportation Planning Staff

Directed by the Boston Metropolitan Planning Organization,
which is composed of:

Executive Office of Transportation and Construction
Massachusetts Bay Transportation Authority
Massachusetts Bay Transportation Authority Advisory Board
Massachusetts Highway Department
Massachusetts Port Authority
Massachusetts Turnpike Authority
Metropolitan Area Planning Council
City of Boston
City of Everett
City of Newton
City of Salem
Town of Bedford
Town of Framingham
Town of Hopkinton
Federal Highway Administration (nonvoting)
Federal Transit Administration (nonvoting)
Regional Transportation Advisory Council (nonvoting)

For additional copies of this document or to request it in an accessible format, contact us:

By mail Central Transportation Planning Staff
 Certification Activities Group
 10 Park Plaza, Suite 2150
 Boston, MA 02116

By telephone (617) 973-7100 (voice)
 (617) 973-7089 (TTY)

By fax (617) 973-8855

By e-mail: tip@ctps.org

Or download at www.ctps.org/bostonmpo/resources/reports.htm.



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**The FY 2004-2008 Transportation Improvement Program
And Air Quality Conformity Determination**

Table of Contents

Chapter 1: The 3C Process	1-1
Chapter 2: The TIP Process	2-1
Chapter 3: Projects in FY 2004	3-1
Chapter 4: Projects in FY 2005	4-1
Chapter 5: Projects in FY 2006	5-1
Chapter 6: Projects in FY 2007	6-1
Chapter 7: Projects in FY 2008	7-1
Chapter 8: The Determination of Air Quality Conformity	8-1
Chapter 9: Financial Constraint	9-1
Public Comments and MPO Responses	Pending

The FY 2004-2008 Transportation Improvement Program And Air Quality Conformity Determination

Chapter 1: The 3C Process

This chapter is intended to give the reader an understanding of how the metropolitan transportation planning process is conducted in the Boston region and the federal requirements that govern it.

Section 134 of the Federal Aid Highway Act and Section 5303 of the Federal Transit Act, as amended, require that urbanized areas, to be eligible for federal funds, maintain a continuing, cooperative, and comprehensive transportation planning process (3C process) resulting in plans and programs consistent with the planning objectives of the metropolitan area.

The 3C transportation planning process in the Boston region is the responsibility of the Boston Region Metropolitan Planning Organization (MPO), which has established the following objectives for the process:

- To identify transportation problems and develop possible solutions to them.
- To strike a balance between short-range and long-range considerations, so that beneficial incremental actions undertaken now reflect an adequate understanding of probable future consequences and possible future options.
- To take into account both regional and local considerations and both transportation and non-transportation objectives and impacts in the analysis of project issues.
- To assist implementing agencies in putting policy and project decisions into effect in a timely fashion, with adequate consideration of environmental, social, fiscal, and economic impacts and with adequate opportunity for participation by other agencies, local governments, and private citizens.
- To assist implementing agencies in assigning priorities to transportation activities in a manner consistent with the region's needs and resources.
- To maintain compliance by the Boston Region MPO with the requirements of the Transportation Equity Act for the 21st Century (TEA-21), the Americans with Disabilities Act (ADA) and the Clean Air Act.

As part of its 3C transportation planning process, the Boston Region MPO produces an annual UPWP. The UPWP is one of three certification documents that must be produced in order for the Boston Region MPO process to be certified as meeting federal requirements and thus be eligible for federal transportation funds. The following is a brief description of each of these documents:

- The Unified Planning Work Program describes a fiscal year's transportation-related planning activities and sets forth budgets for projects using Federal Highway Administration and Federal Transit Administration planning funds. The UPWP contains the funding used to carry out the transportation planning process in the region and to produce the Transportation Plan, the Transportation Improvement Program and Air Quality Conformity Determinations.
- The Transportation Plan and Air Quality Conformity Determination states the MPO transportation policies and goals, describes the public participation process for transportation planning, assesses the current state of the region's transportation system, estimates future needs and resources, and lays out a detailed program for preserving and expanding the system for a 20-year period.
- The Transportation Improvement Program and Air Quality Conformity Determination (TIP) is a staged, multi-year, intermodal program of transportation improvements that is consistent with the Transportation Plan for the Boston region. It describes and prioritizes transportation projects expected to be implemented during a three-year period. The TIP contains a financial plan showing the revenue source or sources, current or proposed, for each project. While the TIP must be produced at least once every two years, in the Boston MPO, it is produced annually. It is incorporated into the Statewide TIP after it has been federally approved as meeting the requirements of the Clean Air Act. One function of the TIP is to serve as a tool for monitoring progress in implementing the Transportation Plan.

The Boston Region Metropolitan Planning Organization

The Boston Region Metropolitan Planning Organization (MPO) is composed of the Executive Office of Transportation and Construction, the cities of Boston, Everett, Newton, and Salem, the Massachusetts Highway Department, the Massachusetts Bay Transportation Authority Advisory Board, the Massachusetts Bay Transportation Authority, the Massachusetts Port Authority, the Massachusetts Turnpike Authority, the Metropolitan Area Planning Council, and the towns of Bedford, Framingham and Hopkinton. In addition, the Federal Highway Administration, the Federal Transit Administration, and the Regional Transportation Advisory Council participate in the MPO as ex officio members. The Boston MPO region encompasses the 101 cities and towns identified in the map on page ii of this document. MPO agencies are responsible for a wide range of planning activities:

- The Executive Office of Transportation and Construction (EOTC) has the statutory responsibility, under Chapter 6A of the Massachusetts General Laws (MGL), to conduct comprehensive planning for and to coordinate the activities and programs of state transportation agencies. Under Chapter 161A, MGL, EOTC is also responsible for the preparation of capital investment programs and plans of the MBTA in conjunction with other transportation programs and plans.

- The Massachusetts Bay Transportation Authority (MBTA) has the statutory responsibility, under the provisions of Chapter 161A, MGL, of preparing the engineering and architectural designs for transit development projects, of constructing and operating transit development projects within its district, and of operating the public transportation system. Chapter 127 of the Acts of 1999 revises the legislative authority of the MBTA by providing for forward funding of the MBTA and the restructuring of the MBTA district. The reconstructed MBTA district now contains 175 communities, including all 101 cities and towns within the Boston MPO. The MBTA board consists of a chairman and eight other directors appointed by the Governor.
- The Massachusetts Bay Transportation Authority Advisory Board was created by the legislature in 1964 as part of the legislation that created the MBTA and was updated as part of Chapter 127 of the Acts of 1999. The Advisory Board consists of representatives of the 175 cities and towns that comprise the MBTA district. Cities are represented by either the city manager or mayor, and towns are represented by the chairperson of the Board of Selectmen. Specific responsibilities of the Advisory Board include a review of future fare increases, approval of the Program for Mass Transportation (PMT), annual review of the MBTA Capital Investment Plan, review of the MBTA report on net operating investment per passenger, and approval of the MBTA operating budget with authority to reduce funding items.

The Advisory Board also has additional responsibilities in transportation capital planning. In accordance with other state and federal requirements, a Memorandum of Understanding between it and five other transportation agencies (the MBTA, Massport, EOTC, MHD and MAPC) was drawn up, delineating a process for sharing both input and responsibilities of capital planning for the region's transportation needs.

The Advisory Board has been designated by the Governor to be one of the agencies that is representative of local elected public officials for purposes of constituting the MPO. Advisory Board meetings are open to the public and provide an opportunity for the public to keep abreast of issues relating to transit service and the positions community representatives have taken on them. In addition, the findings of staff research on key transit issues such as fare policy and management practices are available to communities and members of the public.

- The Massachusetts Highway Department (MassHighway) has the statutory responsibility of planning, designing, constructing, operating and maintaining highways and related facilities. Within MassHighway, the Bureau of Transportation Planning and Development (BTP&D), under Chapter 563 of the Acts of 1964, has the statutory responsibility of serving as the principal source of transportation planning in the Commonwealth. The BTP&D contributes staff resources and technical assistance to Boston-region transportation planning efforts. Also, MassHighway's Bureau of Project Development has been established to serve as the principal unit shepherding highway projects toward implementation. MassHighway's policy board, appointed by the governor, consists of a commissioner and four associate commissioners.

- The Massachusetts Turnpike Authority (MassPike) is authorized to own, construct, maintain, improve, repair, operate and administer the Massachusetts Turnpike and the Metropolitan Highway System (MHS) as established under Chapter 3 of the Acts of 1997. The Metropolitan Highway System consists of the Massachusetts Turnpike Extension (from the Route 128 interchange to downtown Boston), the South Boston Bypass Road, the Callahan, Sumner and Ted Williams Tunnels, the I-90 Connector, the Central Artery and the Central Artery North Area.
- The Massachusetts Port Authority (Massport) has the statutory responsibility, under Chapter 465 of the Acts of 1956, as amended, of planning, constructing, owning, and operating such transportation and related facilities as may be necessary for the development and improvement of commerce in Boston and the surrounding metropolitan area. Massport owns and operates the seaport, Logan International and Hanscom airports, the Tobin Bridge and other facilities.
- The Metropolitan Area Planning Council (MAPC) is composed of the chief executive (or her/his designee) of the 101 cities and towns in the MAPC district, 21 gubernatorial appointees, and 12 ex-officio members. It has statutory responsibility for comprehensive regional planning in the district under Chapter 40B of the General Laws. It is the Boston Metropolitan Clearinghouse under Section 204 of the Demonstration Cities and Metropolitan Development Act of 1966 and Title VI of the Intergovernmental Cooperation Act of 1968. It also has been designated an economic development district under Title IV of the Public Works and Economic Development Act of 1965, as amended. MAPC's responsibilities for comprehensive planning include technical assistance to communities, assistance to communities in the review of documents and programs for public relations and the development of zoning, land use, demographic, and environmental studies.
- The City of Boston, three elected cities: Everett, Newton and Salem; three elected towns: Bedford, Framingham and Hopkinton represent the region's 101 municipalities on the Boston MPO. The City of Boston is a permanent MPO member; the six elected municipalities serve terms as established in the MPO's Memorandum of Understanding that was endorsed in December 2001.

Three other members participate on the Boston MPO in an ex officio capacity, reviewing all transportation plans, transportation improvement programs, and air quality conformity determinations to ensure compliance with federal planning and programming requirements:

- The Federal Highway Administration and the Federal Transit Administration oversee the highway and transit programs of the Department of Transportation under pertinent legislation and the provisions of the Transportation Equity Act for the 21st Century.
- The Regional Transportation Advisory Council, the MPO's citizen advisory group, provides the opportunity for organizations and municipal representatives to become actively involved in the decision-making processes of the agencies that plan and program transportation services in the region. The Advisory Council reviews, comments on, and

makes recommendations regarding certification documents. It also serves as a forum for identification of issues and alternatives, advocates solutions to the region's transportation needs, and generates interest and knowledge among the general public.

Three other entities assist the MPO member agencies in carrying out the responsibilities of the Boston region's 3C planning process through policy implementation, technical support, and public participation:

- The Transportation Planning and Programming Committee, acting on behalf of the MPO members, meets regularly to provide ongoing coordination of planning efforts taking place within the region. It consists of a representative from each MPO member, with the EOTC representative serving as chairperson. The group's functions are to strive for the integration of transportation planning and land use planning efforts and to provide direction to Central Transportation Planning Staff (CTPS). This includes overseeing the development of the TIP and approval of CTPS professional staff hiring.
- The Central Transportation Planning Staff (CTPS) is an interagency staff created by the MPO which carries out general transportation planning activities on its behalf and provides agencies with analyses required for the work described in this document.
- The MAPC Subregional Groups (SRGs) bring together representatives (usually appointed or elected officials) of the communities within a subregion, who share concerns regarding transportation and land use. MAPC has promoted and supported the formation of SRGs in order to foster better communication and cooperation among communities. They have become an important voice in the MPO region's participatory process. This includes playing a role in the development of TIP and UPWP project priorities for their subregions.

The FY 2004-2008 Transportation Improvement Program And Air Quality Conformity Determination

Chapter 2: The TIP Process

An Overview

Unlike most federal programs, highway funding does not depend upon the annual Appropriations Act for the authority to commit federal funds to a program or project. Such funding is traditionally authorized in a multi-year transportation authorization act, which establishes a maximum level of federal transportation funding per fiscal year. However, the establishment of this level of funding, which is referred to as an *authorization*, is only the first step in the process.

Once the authorization level has been established, the United States Department of Transportation annually allocates such funding among the states, based upon various federal formulas. This allocation is referred to as an *apportionment*. This amount, or an estimate thereof, is the basis for the development of transportation improvement programs and MPO financial plans. This is not the end of the process, however, because the annual apportionment rarely represents the actual amount of federal funds which can be committed by a state.

Typically, an amount less than the apportionment is actually available, due to the imposition of *obligation authority*. Obligation authority constitutes a federally imposed limitation on the spending of apportioned funds in a given fiscal year. This limitation may be imposed in a multi-year authorization act, in the annual Appropriations Act, or in both, in which case the most recent enactment controls. Obligation authority is typically less than a state's apportionment. In Massachusetts, TIPs are developed based upon the estimated obligation authority.

Two of the most important distinctions between apportionment and obligation authority are: apportionment is allocated on a per-program basis, while obligation authority is generally allocated as a lump sum; and, unused apportionment carries forward into successive fiscal years, but unused obligation authority does not. Unused apportionment that is carried forward is referred to as an *unobligated balance*. Although a state's unobligated balance can be used to increase the federal-aid programmed within a particular funding category in a given year, it cannot be used to increase the total amount of a state's highway apportionment.

As mentioned earlier, a state's apportionment is the basis for the development of federal-aid allocations as expressed in MPO TIPs. Federal regulations require states to "provide MPOs with estimates of Federal and State funds which the MPOs shall utilize in developing financial plans" for TIPs.¹ In Massachusetts, several "off-the-top" allocations occur prior to the establishment of regional programming targets, including funding for: the Central

¹23 CFR 450.324(e)

Artery; the Statewide Infrastructure Program; Statewide and Regional Planning; and Change Orders for existing contracts. After these needs have been satisfied, the remaining federal apportionment is allocated among the various regions of the state based upon programming targets developed by the Massachusetts Association of Regional Planning Agencies (MARPA).

In addition to providing RPAs with programming targets for the federal-aid apportionment, the state has also authorized the Boston MPO to program a regional allocation of the state's Non-Federal Aid Program (highway projects funded with 100% state funds). The total amount of non-Artery highway funds, both federal and state, programmed in the first three years of the Boston TIP is approximately \$228.3 million, including approximately \$25 million in funds specifically earmarked by Congress (so-called High Priority projects).

Federal transit funds may be allocated to the MPOs or directly to the appropriate transit agency. In the Boston Region, the designated recipient of the vast majority of federal transit funds is the Massachusetts Bay Transportation Authority. The MBTA annually receives funding under two transit formula programs: Section 5307 (transit capital) and Section 5309 (rail modernization). The TIP programs formula funds in each fiscal year based upon the MBTA's best estimate of funding. The total amount of the federal formula funding, plus the required match programmed in the first three years of the Boston TIP is approximately \$612.5 million, including approximately \$348.3million in Section 5307 and \$264.2 million in Section 5309 funds.

In addition, the MBTA has been very successful in qualifying for discretionary funding under the Section 5309 "New Starts" Program. Unlike formula funding, Section 5309 discretionary funding is generally prohibited by federal regulations from being included in the first year of a TIP, unless and until such funding is actually committed. However, because the MBTA and the Federal Transit Administration have executed a full-funding agreement for the South Boston Piers Transitway, the MPO has been authorized to program Section 5309 discretionary funds for this project in the first year of the TIP.

This TIP also includes transit funding for use by the Massachusetts Port Authority. In Fiscal Year 2005, approximately \$10.6 million in Section 5309/Bus discretionary funding is programmed for the Logan Airport Intermodal Transit Connector. These funds are not currently available, but can be programmed in the second year of the TIP as reasonably expected to be available. Should the state and Massport be unable to secure these funds, the project will be removed from the TIP.

Development of the Boston TIP

The Transportation Improvement Program for the Boston Region is developed cooperatively by the State and the MPO. TIP development is basically a six-step process, as follows:

1. The state estimates the amount of federal aid expected to be apportioned to the state in each of the three fiscal years covered by the TIP.

2. The state allocates sufficient federal aid to fund the needs of the Central Artery and statewide transportation programs.

3. The remaining federal aid is then allocated among the MPO regions based upon programming targets developed by the Massachusetts Association of Regional Planning Authorities. [Due to a funding swap between the Central Artery Project and the Statewide Road and Bridge Program, the state received approximately \$42 million in additional federal aid in FY 2003 & FY 2004 and took a concomitant reduction in non-federal aid. At the direction of the state, these funds were applied to the bridge program, resulting in the issuance of a separate programming target for bridges and roadways.]

4. The Regional Planning Authorities (in Boston, MAPC) solicit local communities for projects to be included in the TIP and funded with highway funds, while the RTAs (in Boston, MBTA and CATA) submit projects to be funded with federal transit funds.

5. The MPO then develops a financially constrained TIP and releases the document for public review and comment

6. After responding to public comments and making any necessary changes, the TIP is finalized and voted on at a public MPO meeting.

Over the past two years, the MPO has been working to develop TIP criteria to make the process both more logical and transparent. The criteria is based upon a three-step process relating to threshold criteria, evaluation criteria, and readiness factors. All projects were required to show consistency with the Regional Transportation Plan and other statewide and regional plans, if appropriate (e.g., the Program for Mass Transportation, the Statewide Bicycle Plan, etc.). For evaluation purposes, projects were segregated by type; for example, arterial highway projects were judged against each other, but not against enhancement projects. An evaluation process was developed for each project type, most of which assessed factors such as the condition of the infrastructure, safety issues, mobility needs, and issues of regional, subregional or local concern (e.g., economic development). Staff evaluated each project that was considered for inclusion in the TIP based upon these criteria and provided the information to the MPO. These criteria were used as one input into this year's TIP development process. With the assistance of the public, the MPO will take information learned from this implementing the evaluation criteria and build upon them to improve future iterations of the TIP.

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 3: FY 2004 Project Information

Beverly

Parking Facility

Design a multilevel parking garage and prepare appropriate environmental documentation.

Funding Program: Section 5309/ Bus (FY 2002 Carryover)
Air Quality Status: Model
TIP Criteria Category

Federal Funds:	\$247,508
Local Funds:	\$61,877
Total Funds:	\$309,385

Beverly

Parking Facility

Design a multilevel parking garage and prepare appropriate environmental documentation.

Funding Program: Section 5309/ Bus (FY 2003 Carryover)
Air Quality Status: Model
TIP Criteria Category

Federal Funds:	\$122,960
Local Funds:	\$30,740
Total Funds:	\$153,700

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2004 total \$185.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2004 federal funding commitment includes approximately: \$65 million in Bridge funds, \$3.7 million in CMAQ funds, \$72 million in NHS funds, \$15 million in STP/Boston MPO Earmark funds, and \$29.8 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal Bridge funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: Bridge
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$65,000,000
State Funds:	\$16,250,000
Total Funds:	\$81,250,000

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 3: FY 2004 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2004 total \$185.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2004 federal funding commitment includes approximately: \$65 million in Bridge funds, \$3.7 million in CMAQ funds, \$72 million in NHS funds, \$15 million in STP/Boston MPO Earmark funds, and \$29.8 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal CMAQ funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: CMAQ
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$3,686,652
State Funds:	\$921,663
Total Funds:	\$4,608,315

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2004 total \$567.8 million: \$18.7 million in Massport funds, \$109.3 million in MassPike funds, \$37.2 million in State Bonds/Notes, \$4.9 million in Insurance Trust fund revenue, and \$397.8 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of Insurance Trust Fund revenue. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: Insurance Trust Fund Revenue
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$0
State Funds:	\$4,900,000
Total Funds:	\$4,900,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2004 total \$567.8 million: \$18.7 million in Massport funds, \$109.3 million in MassPike funds, \$37.2 million in State Bonds/Notes, \$4.9 million in Insurance Trust fund revenue, and \$397.8 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of MassPike funds. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: MassPike Funds
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$0
State Funds:	\$109,260,277
Total Funds:	\$109,260,277

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2004 total \$567.8 million: \$18.7 million in Massport funds, \$109.3 million in MassPike funds, \$37.2 million in State Bonds/Notes, \$4.9 million in Insurance Trust fund revenue, and \$397.8 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of Massport funds. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: Massport Funds
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$0
State Funds:	\$18,658,954
Total Funds:	\$18,658,954

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2004 total \$185.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2004 federal funding commitment includes approximately: \$65 million in Bridge funds, \$3.7 million in CMAQ funds, \$72 million in NHS funds, \$15 million in STP/Boston MPO Earmark funds, and \$29.8 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal NHS funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: National Highway System
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$72,000,000
State Funds:	\$18,000,000
Total Funds:	\$90,000,000

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2004 total \$567.8 million: \$18.7 million in Massport funds, \$109.3 million in MassPike funds, \$37.2 million in State Bonds/Notes, \$4.9 million in Insurance Trust fund revenue, and \$397.8 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of State Bonds/Notes. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: State Bonds/Notes
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$0
State Funds:	\$37,165,630
Total Funds:	\$37,165,630

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2004 total \$185.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2004 federal funding commitment includes approximately: \$65 million in Bridge funds, \$3.7 million in CMAQ funds, \$72 million in NHS funds, \$15 million in STP/Boston MPO Earmark funds, and \$29.8 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Boston MPO Earmark funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Boston MPO Earmark
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$15,000,000
State Funds:	\$3,750,000
Total Funds:	\$18,750,000

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2004 total \$185.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2004 federal funding commitment includes approximately: \$65 million in Bridge funds, \$3.7 million in CMAQ funds, \$72 million in NHS funds, \$15 million in STP/Boston MPO Earmark funds, and \$29.8 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Statewide funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$29,788,138
State Funds:	\$7,447,035
Total Funds:	\$37,235,173

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2004 total \$567.8 million: \$18.7 million in Massport funds, \$109.3 million in MassPike funds, \$37.2 million in State Bonds/Notes, \$4.9 million in Insurance Trust fund revenue, and \$397.8 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of Transportation Infrastructure Trust Fund revenues. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: Transportation Infrastructure Trust Fund
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$0
State Funds:	\$397,791,017
Total Funds:	\$397,791,017

Boston

Charles St./MGH Station

Construct the Charles Street MBTA Red Line Station to make accessibility improvements in accordance with the MBTA Key Station Plan.

Funding Program: Section 5307
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$15,132,000
MBTA Funds:	\$3,783,000
Total Funds:	\$18,915,000

Boston

Charles St./MGH Station

Design the Charles Street MBTA Red Line Station to make accessibility improvements in accordance with the MBTA Key Station Plan.

Funding Program: Section 5307 (FY 2003 carryover)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$570,000
MBTA Funds:	\$142,500
Total Funds:	\$712,500

Boston

Ipswich Street Bridge

600731

Rehabilitate the Ipswich Street Bridge (B-16-401) over the Muddy River

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$514,560
State Funds:	\$128,640
Total Funds:	\$643,200

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston	Kenmore Square	602393
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Reconstruct and reconfigure the intersections of Brookline Avenue, Beacon Street, and Commonwealth Avenue, the intersection of Commonwealth Avenue and Deerfield Street, and the intersections of Commonwealth Avenue and Beacon Street with Kenmore Street (Kenmore Square), reconstruct the MBTA bus station, including the bus way and the bus shelter.

This project will be combined for advertisement with the MBTA's Kenmore Station project. A total of \$12 million will be "flexed" to FTA over a two-year period. The amount programmed here represents the first-year funding.

Funding Program: STP/Boston MPO/Flexed to Section 5307
Air Quality Status: Exempt
TIP Criteria Category: Arterial Highway

Federal Funds:	\$5,600,000
State Funds:	\$1,400,000
Total Funds:	\$7,000,000

Boston	Park Street Bridge	055750
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Replace the Park Street Bridge (B-16-116) over the MBTA.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$479,040
State Funds:	\$119,760
Total Funds:	\$598,800

Boston	Silver Line, Phase 2 (the Transitway)
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Construct a new transit line connecting waterfront locations in South Boston to South Station. Dual-mode buses will operate on the system, powered by electric overhead catenary wire while underground and by a generator powered by a low-sulfur diesel engine while on the street.

Section 5307 funds programmed for this project for FY 2004-FY 2005 are approximately \$41 million

Funding Program: Section 5307
Air Quality Status: Exempt
TIP Criteria Category: Transit Expansion

Federal Funds:	\$25,857,598
MBTA Funds:	\$6,464,399
Total Funds:	\$32,321,997

Boston	Silver Line, Phase 2 (the Transitway)
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Construct a new transit line connecting waterfront locations in South Boston to South Station. Dual-mode buses will operate on the system, powered by electric overhead catenary wire while underground and by a generator powered by a low-sulfur diesel engine while on the street.

Funding Program: Section 5309 (FY 2003 carryover)
Air Quality Status: Exempt
TIP Criteria Category: Transit Expansion

Federal Funds:	\$669,276
MBTA Funds:	\$167,319
Total Funds:	\$836,595

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 3: FY 2004 Project Information

Boston

Silver Line, Phase 3

Begin the preliminary design of Phase 3 of the Silver Line, a tunnel connecting Phase 1 (Washington Street) with Phase 2 (South Boston Piers Transitway). The actual amount of funds, if any, that will be made available to the MBTA for this project has not yet been determined. If the MBTA is successful in securing a Congressional earmark for this project, the TIP will be adjusted to program such funding.

Funding Program: Section 5309 New Starts
Air Quality Status: Exempt
TIP Criteria Category: Transit Expansion

Federal Funds:
MBTA Funds:
Total Funds:

Boston

Silver Street Bridge

129320

Replace the Silver Street Bridge (B-16-204) over the Haul Road and Conrail

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$582,720
State Funds:	\$145,680
Total Funds:	\$728,400

Boston

Sprague Street Bridge

130802

Replace the Sprague Street Bridge (B-16-172) over Amtrak.

Funding Program: Non-Federal Aid (Bridge)
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$0
State Funds:	\$8,040,000
Total Funds:	\$8,040,000

Boston & Everett

Rte. 99 (Alford St.) Bridge

603370

Reconstruct the Route 99 (Alford Street) Bridge (B-16-29) over the Mystic River.

This project will be advertised for \$16 million in FY 2004 under the Advanced Construction Program and will be funded over a three-year period with federal funds. The amount programmed here represents the first-year funding.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$3,840,000
State Funds:	\$960,000
Total Funds:	\$4,800,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston Region

Blue Line Modernization

Make improvements to the Blue Line, consistent with the MBTA's Capital Investment Program (CIP). This is a multiyear project that will extend beyond FY 2004.

Funds programmed for this project in FY 2004 are approximately \$39.6 million including a \$15.54 million in carryover from FY2003. These include approximately: \$16.1 million for State Street Station, \$20.5 million for Government Center Station; and \$3.0 million for the Orient Heights Maintenance Facility.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5309/Rail Modernization
Air Quality Status: Model
TIP Criteria Category: State of Good Repair

Federal Funds:	\$19,272,000
MBTA Funds:	\$4,818,000
Total Funds:	\$24,090,000

Boston Region

Blue Line Modernization

Make improvements to the Blue Line, consistent with the MBTA's Capital Investment Program (CIP). This is a multiyear project that will extend beyond FY 2004.

Funds programmed for this project in FY 2004 are approximately \$39.6 million including a \$15.54 million in carryover from FY 2003. These include approximately: \$16.1 million for State Street Station, \$20.5 million for Government Center Station; and \$3.0 million for the Orient Heights Maintenance Facility.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5309/Rail Modernization (FY 2003)
Air Quality Status: Model
TIP Criteria Category: State of Good Repair

Federal Funds:	\$12,432,000
MBTA Funds:	\$3,108,000
Total Funds:	\$15,540,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston Region

Blue Line Vehicles

Purchase 94 Blue Line vehicles to enable the operation of six-car train sets and overhaul 24 current Blue Line vehicles for use on the Orange Line, consistent with the MBTA's Capital Investment Program (CIP). This is a multiyear project that will extend beyond FY 2004. The funding allocation for this project from FY 2004-2006 is approximately \$142.7 million.

Approximately \$11.6 million is carryover from FY2003.

Funding Program: Section 5307 (FY 2003 carryover)
Air Quality Status: Exempt
TIP Criteria Category: State of Good Repair

Federal Funds:	\$9,307,366
MBTA Funds:	\$2,326,842
Total Funds:	\$11,634,208

Boston Region

MBTA § 5307 Infrastructure Program

Make infrastructure improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for the Section 5307 Infrastructure Program from FY 2004 to FY 2006 totals approximately \$89.5 million. FY 2004 funds programmed for this project are approximately \$46.4 million and include approximately: \$13 million for the Blue Line Signal System, and \$33.4 million for the purchase of CNG replacement buses.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5307
Air Quality Status: Exempt
TIP Criteria Category: State of Good Repair

Federal Funds:	\$30,600,000
MBTA Funds:	\$7,650,000
Total Funds:	\$38,250,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston Region

MBTA § 5307 Infrastructure Program

Make infrastructure improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for the Section 5307 Infrastructure Program from FY 2004 to FY 2006 totals approximately \$89.5 million. Funds programmed for this project in FY 2004 are approximately \$46.4 million and include approximately: \$13 million for the Blue Line Signal System, and \$33.4 million for the purchase of CNG replacement buses. Carryover funds programmed for this project are \$8.1 million for the purchase of CNG replacement buses.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5307 (FY 2003 carryover)
Air Quality Status: Exempt
TIP Criteria Category: State of Good Repair

Federal Funds:	\$6,480,000
MBTA Funds:	\$1,620,000
Total Funds:	\$8,100,000

Boston Region

MBTA § 5309 Infrastructure Program

Make infrastructure improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for the Section 5309 Infrastructure Program from FY 2004 to FY 2006 totals approximately \$63.2 million. Funds programmed for this project in FY 2004 total approximately \$35 million for the Orange Line Signal System.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5309/Rail Modernization
Air Quality Status: Exempt
TIP Criteria Category: State of Good Repair

Federal Funds:	\$27,976,000
MBTA Funds:	\$6,994,000
Total Funds:	\$34,970,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston Region

MBTA Accessibility Program

Make accessibility improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for FY 2004 MBTA Accessibility Program is approximately \$81 million. Funds programmed are approximately \$20.7 million and include: Kenmore Station, Arlington Station, Copley Station and Government Center.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5307
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$16,512,000
MBTA Funds:	\$4,128,000
Total Funds:	\$20,640,000

Boston Region

MBTA Accessibility Program

Make accessibility improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for the Section 5307 carryover MBTA Accessibility Program is approximately \$81 million. Funds programmed are approximately \$20.7 million and include: Kenmore Station, Arlington Station, Copley Station and Government Center.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5307 (FY 2003 carryover)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$40,412,000
MBTA Funds:	\$10,103,000
Total Funds:	\$50,515,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston Region

MBTA Accessibility Program

Make accessibility improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for Section 5309 carryover MBTA Accessibility Program is approximately \$81 million. Funds programmed are approximately \$9.8 million and include: Kenmore Station, Arlington Station, Copley Station and Government Center.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5309 (FY 2003 carryover)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$7,840,000
MBTA Funds:	\$1,960,000
Total Funds:	\$9,800,000

Boston Region

MBTA Automated Advanced Fare Collection System

Install an automated advanced fare collection system for the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

Funding Program: Section 5309/Rail Modernization
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$23,203,189
MBTA Funds:	\$5,800,797
Total Funds:	\$29,003,986

Boston Region

MBTA Automated Advanced Fare Collection System

Install an automated advanced fare collection system for the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

Funding Program: Section 5309/Rail Modernization (FY2003)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$2,172,817
MBTA Funds:	\$543,204
Total Funds:	\$2,716,021

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston Region

MBTA Bridge Program

Design and reconstruct one or more of the following bridges: Redfield Street in Dorchester, Shawmut Junction in Dorchester, Chestnut Hill Busway in Brookline, Ruggles Station Busway in Roxbury, Bay Street in Taunton, Reservoir Road in Brookline, Shawmut Junction in Mattapan, Hyde Street in Brookline, Langley Road in Newton, West Street in Walpole (two bridges), and Washington Street in Somerville.

The federal funds programmed here represent a portion of the FY 2001 highway funds “flexed” to the MBTA for its bridge program.

Funding Program: Section 5309 (FY 2003)
Air Quality Status: Exempt
TIP Criteria Category: State of Good Repair

Federal Funds:	\$6,000,000
MBTA Funds:	\$1,500,000
Total Funds:	\$7,500,000

Boston Region

MBTA Enhancement Program

The funding allocation for the MBTA Enhancement Program from FY 2004 to FY 2006 totals approximately \$6.0 million. Funds programmed for this project in FY 2004 are approximately \$1.2 million and will be used for bus shelters, the systemwide ITS program, rapid transit signage, and transit security.

Funding Program: Section 5307/Enhancement
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$981,090
MBTA Funds:	\$245,272
Total Funds:	\$1,226,362

Boston Region

MBTA Enhancement Program

The funding allocation for the MBTA Enhancement Program from FY 2004 to FY 2006 totals approximately \$6.0 million. Funds programmed for this project as carryover from FY 2002 are approximately \$1.1 million and will be used for bus shelters, the systemwide ITS program, rapid transit signage, and transit security.

Funding Program: Section 5307/Enhancement (FY 2002)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$901,072
MBTA Funds:	\$225,268
Total Funds:	\$1,126,340

Boston Region

MBTA Enhancement Program

The funding allocation for the MBTA Enhancement Program from FY 2004 to FY 2006 totals approximately \$6.0 million. Funds programmed for this project as carryover from FY 2003 are approximately \$1.2 million and will be used for bus shelters, the systemwide ITS program, rapid transit signage, and transit security.

Funding Program: Section 5307/Enhancement (FY 2003)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$981,090
MBTA Funds:	\$245,272
Total Funds:	\$1,226,362

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Boston Region

MBTA Systemwide ITS

Make intelligent transportation system improvements to the MBTA system.

Funding Program: High Priority Project/Section 5307 (FY 2002)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$855,500
MBTA Funds:	\$213,875
Total Funds:	\$1,069,375

Boston Region

MBTA Systemwide ITS

Make intelligent transportation system improvements to the MBTA system.

Funding Program: High Priority Project/Section 5307 (FY 2001)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$1,398,253
MBTA Funds:	\$349,563
Total Funds:	\$1,747,816

Boston Region

Regional Transportation Demand Management Program

Provide funding for regional or local shuttles, the formation of Transportation Management Associations (TMAs), or other Transportation Demand Management (TDM) projects.

Funding Program: CMAQ
Air Quality Status: Off-Model
TIP Criteria Category: Regional Mobility

Federal Funds:	\$200,000
State Funds:	\$50,000
Total Funds:	\$250,000

Boston Region

Suburban Mobility Improvement Program

Provide funding for programs and projects that improve the mobility of residents in areas currently unserved or underserved by transit. Potential services eligible for funding under this program include fixed-route shuttles serving markets not typically addressed (e.g., suburb-to-suburb, reverse commuting, etc.), employer-based van/carpool services, flexible-route shuttle services, and similar programs.

Funding Program: CMAQ
Air Quality Status: Off-Model
TIP Criteria Category: Regional Mobility

Federal Funds:	\$400,000
State Funds:	\$100,000
Total Funds:	\$500,000

Cambridge

Walden St. Bridge

160065

Replace the Walden Street Bridge (C-1-13) over the B&M Railroad and the MBTA.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$480,000
State Funds:	\$120,000
Total Funds:	\$600,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 3: FY 2004 Project Information

Cambridge & Boston

North Sta./Kendall Sq. Shuttle

Provide third-year funding for a shuttle connecting North Station in Boston to Kendall Square in Cambridge.

Funding Program: CMAQ
Air Quality Status: Off-Model
TIP Criteria Category: Regional Mobility

Federal Funds:	\$196,381
State Funds:	\$49,095
Total Funds:	\$245,476

Canton & Dedham

Rte. 128 Bridges, Year 2

602288

Replace the Interstate 95 (Route 128) northbound bridge (C-2-26) and southbound bridge (C-2-27) over the Neponset River. This project is part of the Route 128 Transportation Improvement Project.

This project will be advertised for \$18 million in FY 2003 under the Advanced Construction Program and will be funded over a three-year period with federal funds. The amount programmed here represents the second-year funding.

Funding Program: Bridge
Air Quality Status: Model
TIP Criteria Category: Bridge

Federal Funds:	\$960,000
State Funds:	\$240,000
Total Funds:	\$1,200,000

Cape Ann

Cape Ann Transportation Authority

Provide funding for the capital and/or preventative maintenance costs of the Cape Ann Transportation Authority.

Funding Program: Section 5307
Air Quality Status: Exempt
TIP Criteria Category: State of Good Repair

Federal Funds:	\$332,000
State Funds:	\$83,000
Total Funds:	\$415,000

Chelsea

Eastern Avenue

601199

Reconstruct Eastern Avenue from Central Avenue to Broadway and incorporating safety measures into the corridor. Reconfiguration of the Eastern Avenue and Broadway intersection and installation of traffic signals.

Funding Program: STP/Statewide
Air Quality Status: Exempt
TIP Criteria Category: Arterial Highway

Federal Funds:	\$6,528,000
State Funds:	\$1,632,000
Total Funds:	\$8,160,000

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 3: FY 2004 Project Information

Danvers **Rte. 35 (Water Street) Bridge** **601918**

Replace the Route 35 (Water Street) Bridge (D-3-13) over the Waters River.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$917,760
State Funds:	\$229,440
Total Funds:	\$1,147,200

Everett **Rte. 99 (Broadway)** **602383**

Reconstruct Route 99 (Broadway) from Ferry Street to the Malden city line and update the traffic signals.

Funding Program: STP/Statewide
Air Quality Status: Exempt
TIP Criteria Category: Arterial Highway

Federal Funds:	\$3,360,000
State Funds:	\$840,000
Total Funds:	\$4,200,000

Gloucester **Intermodal Center**

Design and construct an intermodal center in Gloucester, providing connections between CATA bus service and MBTA commuter rail service. The grantee for this project is the MBTA.

Funding Program: Section 3012 (FY 1999 carryover)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$1,299,999
State Funds:	\$325,000
Total Funds:	\$1,624,999

Gloucester **Intermodal Center**

Design and construct an intermodal center in Gloucester, providing connections between CATA bus service and MBTA commuter rail service. The grantee for this project is the MBTA.

Funding Program: Section 3012 (FY 2000 carryover)
Air Quality Status: Exempt
TIP Criteria Category: Transit Enhancement

Federal Funds:	\$1,482,740
State Funds:	\$370,685
Total Funds:	\$1,853,425

Gloucester **Thatcher Road Bridge** **133850**

Replace the Thatcher Road Bridge (G-5-9) over Good Harbor Beach Creek.

Funding Program: Non-Federal Aid (Bridge)
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$0
State Funds:	\$1,246,800
Total Funds:	\$1,246,800

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 3: FY 2004 Project Information

Hingham & Norwell	Rte. 53	114880
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Widen Route 53 to a three-lane cross section, to include a center turn lane, from 700 feet northwest of Route 228 to 700 feet southeast of Grove & High Streets. Also, widen the approaches at the Route 53-Route 228 intersection in Hingham and Norwell and at the High Street/Grove Street-Route 53 intersection in Norwell.

Funding Program: STP/Statewide
Air Quality Status: Exempt
TIP Criteria Category: Arterial Highway

Federal Funds:	\$2,400,000
State Funds:	\$600,000
Total Funds:	\$3,000,000

Littleton	Taylor St. Bridge	603499
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Replace the Taylor Street Bridge (L-13-16) over Route 2.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$1,315,200
State Funds:	\$328,800
Total Funds:	\$1,644,000

Lynn & Saugus	Boston St. Bridge	602047
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Replace the Boston Street Bridge (L-18-17 = S-5-9) over the Saugus River.

Funding Program: Non-Federal Aid (Bridge)
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$0
State Funds:	\$808,800
Total Funds:	\$808,800

Marshfield & Scituate	Sea St. Bridge	602533
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Replace the Sea Street Bridge (M-7-3 = S-7-3) over the South River.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$2,998,080
State Funds:	\$749,520
Total Funds:	\$3,747,600

Milford	Milford Upper Charles Trail - Phase 1	603664
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Construct a three mile segment of a planned six mile bicycle/pedestrian paved trail in Milford from the Holliston town line to the Hopkinton town line. This is part of a proposed twenty-seven mile multi-town (Framingham, Sudbury, Holliston, Milford, Hopkinton, Ashland) regional rail-trail.

Funding Program: STP/Enhancement
Air Quality Status: Exempt
TIP Criteria Category: Bicycle/Pedestrian

Federal Funds:	\$1,123,293
State Funds:	\$280,823
Total Funds:	\$1,404,116

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 3: FY 2004 Project Information

Natick	Rte. 9 Bridge	603004
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Replace the Route 9 Bridge (N-3-21) over Lake Cochituate.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$1,595,520
State Funds:	\$398,880
Total Funds:	\$1,994,400

Peabody	N. Central St. Bridge	601718
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Replace the pedestrian bridge on North Central Street (P-3-11) over the MBTA.

Funding Program: Non-Federal Aid (Bridge)
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$0
State Funds:	\$543,600
Total Funds:	\$543,600

Randolph to Wellesley	Rte. 128 Transportation Improvement Project (Design)	
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Fund bridge and roadway design work for the addition of two general purpose lanes, one northbound and one southbound, to Route 128 in Randolph, Canton, Westwood, Dedham, Needham and Wellesley

Funding Program: National Highway System
Air Quality Status: Model
TIP Criteria Category: Major Highway

Federal Funds:	\$1,612,000
State Funds:	\$403,000
Total Funds:	\$2,015,000

Revere	Revere St. Bridge	118000
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Reconstruct the Revere Street Bridge (R-5-11) over the B&M Railroad.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$1,824,000
State Funds:	\$456,000
Total Funds:	\$2,280,000

Salem	Parking Facility	
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Design a multilevel parking garage at the existing commuter rail station.

Funding Program: Section 5309/ Bus (FY 2002 Carryover)
Air Quality Status: Model
TIP Criteria Category:

Federal Funds:	\$247,507
Local Funds:	\$61,877
Total Funds:	\$309,384

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 3: FY 2004 Project Information

Salem

Parking Facility

Design a multilevel parking garage at the existing commuter rail station.

Funding Program: Section 5309/ Bus (FY 2003 Carryover)
Air Quality Status: Model
TIP Criteria Category

Federal Funds:	\$122,960
Local Funds:	\$30,740
Total Funds:	\$153,700

Salem

Rte. 114 (North St.)

601323

Reconstruct Route 114 (North Street) from the Peabody city line to Bridge Street.

Funding Program: STP/Statewide
Air Quality Status: Exempt
TIP Criteria Category: Arterial Highway

Federal Funds:	\$912,000
State Funds:	\$228,000
Total Funds:	\$1,140,000

Somerville

Somerville Ave.

602109

Reconstruct Somerville Avenue from Union Square to Cambridge city line.

Funding Program: STP/Boston MPO Earmark
Air Quality Status: Exempt
TIP Criteria Category: Arterial Highway

Federal Funds:	\$4,800,000
State Funds:	\$1,200,000
Total Funds:	\$6,000,000

Somerville

Somerville Ave. Enhancement

Install signage, lighting and other landscape amenities along the south side of Somerville Avenue from the eastern end of Conway Park, across the MDC Veteran Memorial Skating Rink, to the western edge of the MDC parking lot.

Funding Program: STP/Enhancement
Air Quality Status: Exempt
TIP Criteria Category: Other Enhancement

Federal Funds:	\$402,221
State Funds:	\$100,555
Total Funds:	\$502,776

Walpole

Washington Street Bridge Removal

603911

Remove the Washington Street bridge over abandoned rail road tracks.

Funding Program: Non-Federal Aid (Bridge)
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$0
State Funds:	\$360,000
Total Funds:	\$360,000

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 3: FY 2004 Project Information

Waltham **Winter St. Bridge, Year 2** **601498**

Reconstruct the Winter Street Bridge (W-4-25) over Interstate 95 (Route 128) and reconfigure the associated interchange.

This project will be advertised for \$19 million in FY 2003 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the second-year funding.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$3,840,000
State Funds:	\$960,000
Total Funds:	\$4,800,000

Wayland **Rte. 20 Bridge** **105121**

Rehabilitate the Route 20 Bridge (W-11-1) over the Sudbury River.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$1,056,000
State Funds:	\$264,000
Total Funds:	\$1,320,000

Westwood **I-95 (Rte. 128), Two Bridges** **601622**

Replace the Interstate 95 (Route 128) northbound bridge (W-31-005) and southbound bridge (W-31-013) over the MBTA.

Funding Program: Bridge
Air Quality Status: Exempt
TIP Criteria Category: Bridge

Federal Funds:	\$5,280,000
State Funds:	\$1,320,000
Total Funds:	\$6,600,000

Westwood **Rte. 109 (High St.)** **601315**

Reconstruct Route 109 (High Street) from Grove Street to Hartford Street.

Funding Program: STP/Statewide
Air Quality Status: Exempt
TIP Criteria Category: Arterial Highway

Federal Funds:	\$3,240,000
State Funds:	\$810,000
Total Funds:	\$4,050,000

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 3: FY 2004 Project Information

Weymouth

Rte. 18 Intersections

603161

Make traffic signal improvements at three locations on Route 18: West Street, Park Avenue and Columbian Street

Funding Program: STP/Statewide
Air Quality Status: Exempt
TIP Criteria Category: Arterial Highway

Federal Funds:	\$3,072,000
State Funds:	\$768,000
Total Funds:	\$3,840,000

Weymouth

Rte. 18 (Right-of-Way)

Purchase right-of-way for the widening of Route 18 (Main Street) to four lanes from Route 3 to Columbian Street.

Funding Program: High Priority Project
Air Quality Status: Model
TIP Criteria Category: Arterial Highway

Federal Funds:	\$1,440,000
State Funds:	\$360,000
Total Funds:	\$1,800,000

Wilmington

Rte. 129

601732

Resurface Route 129 (Lowell Street) from Route 38 (Main Street) to Woburn Street. The High Priority Project (HPP) funds provided for this project are insufficient to fund the federal share of its total cost and have been supplemented with STP/Boston MPO Earmark funds. The HPP funds total \$1,108,241 and the STP funds total \$1,760,561.

Funding Program: High Priority Project + STP/Boston MPO
Air Quality Status: Exempt
TIP Criteria Category: Arterial Highway

Federal Funds:	\$2,868,802
State Funds:	\$661,788
Total Funds:	\$3,530,590

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 4: FY 2005 Project Information

Bedford, Billerica, & Burlington

Middlesex Turnpike , Phase 2 (Mitre Extension)

029491B

Construct the Mitre Extension, a proposed new section of roadway, to connect Middlesex Turnpike to the intersection of Route 62 and Network Drive (formerly Kent Road). The remaining High Priority Project funds allocated to the Crosby Drive/Middlesex Turnpike Project are insufficient to fund the federal share of the cost of Phase 2 and have been supplemented with STP/Boston MPO Earmark funds. The HPP funds total \$3,140,494 and the STP funds total \$3,225,126

Funding Program: HPP + STP/Boston Earmark
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$6,365,620
State Funds:	\$1,434,380
Total Funds:	\$7,800,000

Boston

Airport Intermodal Transit Connector

The Airport Intermodal Transit Connector (AIRC) involves two routes: one connecting South Station in Boston to the airport via the South Boston Transitway and the Ted Williams Tunnel and the second connecting the MBTA's Blue Line to airport terminals. The estimated cost to design and implement the AIRC is approximately \$40 million. The funds programmed here will be used to procure eight dual-mode buses.

The funds programmed here are discretionary and are typically provided through a congressional earmark. Should Massport not receive this funding, this project will be removed from the TIP.

Funding Program: Section 5309/Bus
Air Quality Status: Model
TIP category: Transit Expansion

Federal Funds:	\$10,640,000
State Funds:	\$2,660,000
Total Funds:	\$13,300,000

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2005 total \$225.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2005 federal funding commitment includes approximately: \$40 million in Bridge funds, \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$95.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal Bridge funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$40,000,000
State Funds:	\$10,000,000
Total Funds:	\$50,000,000

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 4: FY 2005 Project Information

Boston **Central Artery Project** **195001**

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2005 total \$315.4 million: \$150.4 million in MassPike funds, \$3.3 million in Insurance Trust fund revenue and \$161.7 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of Insurance Trust Fund revenue. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: Insurance Trust Fund Revenue
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$0
State Funds:	\$3,300,000
Total Funds:	\$3,300,000

Boston **Central Artery Project** **195001**

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2005 total \$315.4 million: \$150.4 million in MassPike funds, \$3.3 million in Insurance Trust fund revenue and \$161.7 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of MassPike funds. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: MassPike Funds
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$0
State Funds:	\$150,399,450
Total Funds:	\$150,399,450

Boston **Central Artery Project** **195001**

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2005 total \$225.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2005 federal funding commitment includes approximately: \$40 million in Bridge funds, \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$95.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal NHS funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: National Highway System
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$70,000,000
State Funds:	\$17,500,000
Total Funds:	\$87,500,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 4: FY 2005 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2005 total \$225.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2005 federal funding commitment includes approximately: \$40 million in Bridge funds, \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$95.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Boston MPO Earmark funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Boston MPO Earmark
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$20,000,000
State Funds:	\$5,000,000
Total Funds:	\$25,000,000

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2005 total \$225.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2005 federal funding commitment includes approximately: \$40 million in Bridge funds, \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$95.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Statewide funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$95,474,790
State Funds:	\$23,868,698
Total Funds:	\$119,343,488

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 4: FY 2005 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2005 total \$315.4 million: \$150.4 million in MassPike funds, \$3.3 million in Insurance Trust fund revenue and \$161.7 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of Transportation Infrastructure Trust Fund revenue. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: Transportation Infrastructure Trust Fund
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$0
State Funds:	\$161,740,163
Total Funds:	\$161,740,163

Boston

Kenmore Square

602393

Reconstruct and reconfigure the intersections of Brookline Avenue, Beacon Street, and Commonwealth Avenue, the intersection of Commonwealth Avenue and Deerfield Street, and the intersections of Commonwealth Avenue and Beacon Street with Kenmore Street (Kenmore Square), reconstruct the MBTA bus station, including the bus way and the bus shelter.

This project will be advertised for \$12 million in FY 2004 under the Advanced Construction Program and will be funded over a two-year period with federal funds. The amount programmed here represents the second-year funding.

Funding Program: STP
Air Quality Status: Exempt
TIP category: Arterial Highway

Federal Funds:	\$4,000,000
State Funds:	\$1,000,000
Total Funds:	\$5,000,000

Boston & Everett

Route 99 (Alford Street) Bridge

603370

Reconstruct the Route 99 (Alford Street) Bridge (B-16-29) over the Mystic River.

This project will be advertised for \$16 million in FY 2004 under the Advanced Construction Program and will be funded over a three-year period with federal funds. The amount programmed here represents the second-year funding.

Funding Program: Bridge
Air Quality Status: Exempt
TIP category: Bridge

Federal Funds:	\$3,840,000
State Funds:	\$960,000
Total Funds:	\$4,800,000

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 4: FY 2005 Project Information

Boston Region

Blue Line Modernization

Make improvements to the Blue Line, consistent with the MBTA's Capital Investment Program (CIP). This is a multiyear project that will extend beyond FY 2005.

Funds programmed for this project in FY 2004 to FY 2006 are approximately \$183 million. Funds programmed for this project in FY 2005 are \$70.6 million and include approximately: \$42.6 million for State Street Station, \$1.3 million for Orient Heights Station, \$19.4 million for Maverick Station, and \$7.3 million for the Orient Heights Maintenance Facility.

These funding allocations are based upon the best information available as of July 24, 2003 (the date of final MPO endorsement of the TIP). The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5309/Rail Modernization
Air Quality Status: Model
TIP category: State of Good Repair

Federal Funds:	\$56,480,000
MBTA Funds:	\$14,120,000
Total Funds:	\$70,600,000

Boston Region

Blue Line Vehicles

Purchase 94 Blue Line vehicles to enable the operation of six-car train sets and overhaul 24 current Blue Line vehicles for use on the Orange Line, consistent with the MBTA's Capital Investment Program (CIP). This is a multiyear project that will extend beyond FY 2006.

The funding allocation for this project for FY2005 and FY 2006 is approximately \$131 million.

Funding Program: Section 5307
Air Quality Status: Exempt
TIP category: State of Good Repair

Federal Funds:	\$38,400,000
MBTA Funds:	\$9,600,000
Total Funds:	\$48,000,000

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 4: FY 2005 Project Information

Boston Region

MBTA § 5307 Infrastructure Program

Make infrastructure improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for the Section 5307 Infrastructure Program from FY 2004 to FY 2006 totals approximately \$89.5 million. Funds programmed for this project in FY 2005 are \$25.9 million and include: \$12.4 million for the purchase of Emission Control Buses and \$13.5 million for the Blue Line Signal System.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5307
Air Quality Status: Exempt
TIP category: State of Good Repair

Federal Funds:	\$20,720,000
MBTA Funds:	\$5,180,000
Total Funds:	\$25,900,000

Boston Region

MBTA § 5309 Infrastructure Program

Make infrastructure improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for the Section 5309 Infrastructure Program from FY 2004 to FY 2006 totals approximately \$63.2 million. Funds programmed for this project in FY 2005 total approximately \$12.9 million for the Orange Line Signal System.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5309/Rail Modernization
Air Quality Status: Exempt
TIP category: State of Good Repair

Federal Funds:	\$10,368,000
MBTA Funds:	\$2,592,000
Total Funds:	\$12,960,000

Boston Region

MBTA Automated Advanced Fare Collection System

Install an automated advanced fare collection system for the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

Funds programmed for this project in FY 2005 are approximately \$39 million (including \$4.5 million in FY 2005 Section 5309/Rail Modernization funds and \$34.5 million in FY 2005 Section 5307 funds).

Funding Program: Section 5307
Air Quality Status: Exempt
TIP category: Transit Enhancement

Federal Funds:	\$27,634,805
MBTA Funds:	\$6,908,701
Total Funds:	\$34,543,506

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 4: FY 2005 Project Information

Boston Region

MBTA Automated Advanced Fare Collection System

Install an automated advanced fare collection system for the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

Funds programmed for this project in FY 2005 are approximately \$39 million (including \$4.5 million in FY 2005 Section 5309/Rail Modernization funds and \$34.5 million in FY 2005 Section 5307 funds).

Funding Program: Section 5309/Rail Modernization
Air Quality Status: Exempt
TIP category: Transit Enhancement

Federal Funds:	\$3,603,189
MBTA Funds:	\$900,797
Total Funds:	\$4,503,986

Boston Region

MBTA Enhancement Program

The funding allocation for the MBTA Enhancement Program from FY 2004 to FY 2006 totals approximately \$3.7 million. Funds programmed for this project in FY 2005 are approximately \$1.2 million and will be used for bus shelters, the systemwide ITS program, rapid transit signage, and transit security.

Funding Program: Section 5307/Enhancement
Air Quality Status: Exempt
TIP category: Transit Enhancement

Federal Funds:	\$981,090
MBTA Funds:	\$245,272
Total Funds:	\$1,226,362

Boston Region

Regional Transportation Demand Management Program

Provide funding for regional or local shuttles, the formation of Transportation Management Associations (TMAs), or other Transportation Demand Management (TDM) projects.

Funding Program: CMAQ
Air Quality Status: Off-Model
TIP category: Regional Mobility

Federal Funds:	\$200,000
State Funds:	\$50,000
Total Funds:	\$250,000

Boston Region

Silver Line, Phase 2 (the Transitway)

Construct a new transit line connecting waterfront locations in South Boston to South Station. Dual-mode buses will operate on the system, powered by electric overhead catenary wire while underground and by a generator powered by a low-sulfur diesel engine while on the street.

Section 5307 funds programmed for this project for FY 2004 to 2005 are approximately \$41 million

Funding Program: Section 5307
Air Quality Status: Exempt
TIP category: Transit Expansion

Federal Funds:	\$7,070,271
MBTA Funds:	\$1,767,568
Total Funds:	\$8,837,839

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 4: FY 2005 Project Information

Boston Region

Suburban Mobility Improvement Program

Provide funding for programs and projects that improve the mobility of residents in areas currently unserved or underserved by transit. Potential services eligible for funding under this program include fixed-route shuttles serving markets not typically addressed (e.g., suburb-to-suburb, reverse commuting, etc.), employer-based van/carpool services, flexible-route shuttle services, and similar programs.

Funding Program: CMAQ
Air Quality Status: Off-Model
TIP category: Regional Mobility

Federal Funds:	\$400,000
State Funds:	\$100,000
Total Funds:	\$500,000

Brookline

Beacon Street, Year 1

601183

Make safety improvements to Beacon Street from St. Mary's Street west to the Boston city line. The project includes upgrading the signals, redesigning the traffic flow, providing angled parking and reconstructing the roadway. Enhancements provide pedestrian amenities and historic landscape features.

Funding Program: STP/Statewide + STP/Enhancement
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$1,200,000
State Funds:	\$300,000
Total Funds:	\$1,500,000

Canton & Dedham

Rte. 128 Bridges, Year 3

602288

Replace the Interstate 95 (Route 128) northbound bridge (C-2-26) and southbound bridge (C-2-27) over the Neponset River. This project is part of the Route 128 Transportation Improvement Project.

This project will be advertised for \$18 million in FY 2003 under the Advanced Construction Program and will be funded over a three-year period with federal funds. The amount programmed here represents the third-year funding.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$4,800,000
State Funds:	\$1,200,000
Total Funds:	\$6,000,000

Canton, Randolph & Westwood

Rte. 128 Transportation Improvement Project, Year 1

087800

Add two general purpose lanes, one northbound and one southbound, to Route 128 in Canton, Randolph, and Westwood, from Route 24 in Randolph to south of the East Street Rotary in Westwood.

This project will be advertised for \$12 million in FY 2005 under the Advanced Construction Program and will be funded over a two-year period with federal funds. The amount programmed here represents the first-year funding.

Funding Program: National Highway System
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$4,800,000
State Funds:	\$1,200,000
Total Funds:	\$6,000,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 4: FY 2005 Project Information

Danvers **Route 1 Bridges** **603715**

Replacement of the Route 1 northbound (D-3-26) and southbound (D-3-27) bridges over Centre Street.

Funding Program: Bridge
Air Quality Status: Exempt
TIP category: Bridge

Federal Funds:	\$2,880,000
State Funds:	\$720,000
Total Funds:	\$3,600,000

Dedham & Westwood **Rte. 1 & Rte 1A Bridges, Year 1** **603162**

Replace the Route 1 bridges (D-5-27 and D-5-46) and Route 1A bridges (D-5-44 and D-5-45) over Interstate 95 (Route 128). This project is part of the Route 128 Transportation Improvement Project.

This project will be advertised for \$15.5 million in FY 2005 under the Advanced Construction Program and will be funded over a three-year period with federal funds. The amount programmed here represents the first-year funding.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$1,920,000
State Funds:	\$480,000
Total Funds:	\$2,400,000

Everett, Malden, & Medford **Telecom Blvd., Phase 1**

Construct Phase 1 of Telecom Boulevard from Santilli Circle in Everett to the approach for the Malden River Bridge. Work will include connections to Tileston Street, Norman Street, the Mellon Bank site, and Telecom Place.

Funding Program: High Priority Project
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$2,880,000
State Funds:	\$720,000
Total Funds:	\$3,600,000

Framingham **Central Street Bridge** **602839**

Replace the Central Street Bridge (F-7-9) over the Sudbury River.

Funding Program: Bridge
Air Quality Status: Exempt
TIP category: Bridge

Federal Funds:	\$1,036,800
State Funds:	\$259,200
Total Funds:	\$1,296,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 4: FY 2005 Project Information

Framingham	Route 9 Bridge	602522
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Replace the Route 9 Bridge (F-7-6) over the Sudbury River.

Funding Program: Bridge
Air Quality Status: Exempt
TIP category: Bridge

Federal Funds:	\$3,840,000
State Funds:	\$960,000
Total Funds:	\$4,800,000

Hudson	Rte. 62 (Main St.) Bridge	602131
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Replace the Route 62 (Main Street) Bridge (H-25-7) over the Assabet River.

Funding Program: Bridge
Air Quality Status: Exempt
TIP category: Bridge

Federal Funds:	\$1,881,600
State Funds:	\$470,400
Total Funds:	\$2,352,000

Melrose	Main Street - Green Street	601552
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Improve the intersection of Main Street and Green Street, including rehabilitating the roadway and upgrading the signalization. The HPP portion of this project is \$2,001,852 and the STP portion is \$480,444.

Funding Program: High Priority Project + STP/Boston
Air Quality Status: Exempt
TIP category: Arterial Highway

Federal Funds:	\$2,482,296
State Funds:	\$520,482
Total Funds:	\$3,002,778

Newton	Commonwealth Ave., Phase 3	601899
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Reconstruct Route 30 (Commonwealth Avenue) from Grant Avenue to the Boston city line.

Funding Program: STP/Boston MPO Earmark
Air Quality Status: Exempt
TIP category: Arterial Highway

Federal Funds:	\$2,592,000
State Funds:	\$648,000
Total Funds:	\$3,240,000

Newton	Commonwealth Ave., Phase 3	
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Install historic lighting and provide landscaping along Commonwealth Avenue from the Boston city line to 100 feet west of Grant Avenue.

Funding Program: STP/Enhancement
Air Quality Status: Exempt
TIP category: Enhancement

Federal Funds:	\$639,524
State Funds:	\$159,881
Total Funds:	\$799,405

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 4: FY 2005 Project Information

Randolph to Wellesley

Rte. 128 Transportation Improvement Project (Design)

Fund bridge and roadway design work for the addition of two general purpose lanes, one northbound and one southbound, to Route 128 in Randolph, Canton, Westwood, Dedham, Needham and Wellesley.

Funding Program: National Highway System
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$1,852,000
State Funds:	\$463,000
Total Funds:	\$2,315,000

Somerville

Beacon Street

601820

Reconstruct Beacon Street from Oxford Street to the Cambridge city line. The HPP portion of this project is \$2,309,753 and the STP portion is \$554,340

Funding Program: High Priority Project + STP/Boston
Air Quality Status: Exempt
TIP category: Arterial Highway

Federal Funds:	\$2,864,093
State Funds:	\$600,536
Total Funds:	\$3,464,629

Waltham

Winter St. Bridge, Year 3

601498

Reconstruct the Winter Street Bridge (W-4-25) over Interstate 95 (Route 128) and reconfigure the associated interchange.

This project will be advertised for \$19 million in FY 2003 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the third-year funding including a 20% construction engineering contingency.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$3,840,000
State Funds:	\$960,000
Total Funds:	\$4,800,000

Weymouth

Naval Air Station Reuse

Improve the transportation infrastructure of the South Weymouth Naval Air Station. This work is associated with on-base improvements.

Funding Program: High Priority Project
Air Quality Status: Model
TIP category: N/A

Federal Funds:	\$5,600,000
State Funds:	\$1,400,000
Total Funds:	\$7,000,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 4: FY 2005 Project Information

Weymouth

Rte. 18 , Year 1

601630

Widen Route 18 (Main Street) to four lanes from Route 3 to Route 139 in Abington.

This project will be advertised for \$16 million in FY 2005 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the first-year funding.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$2,400,000
State Funds:	\$600,000
Total Funds:	\$3,000,000

Weymouth

Rte. 3/Rte. 18 Connection

Construct a connection between Route 3 and Route 18. This work is associated with the reuse of the South Weymouth Naval Air Station.

Funding Program: High Priority Project
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$2,400,000
State Funds:	\$600,000
Total Funds:	\$3,000,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 5: FY 2006 Project Information

Bedford, Billerica, and Burlington

Middlesex Turnpike, Phase 1

029491A

Widen Middlesex Turnpike from the Burlington town line to Manning Road in Billerica. The project also includes the reconfiguration of various intersections.

Funding Program: STP/Boston MPO
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$5,760,000
State Funds:	\$1,440,000
Total Funds:	\$7,200,000

Bellingham

Pearl Street Bridge

602999

Replace the Pearl St. Bridge (B-6-1) over the Charles River.

Funding Program: Bridge
Air Quality Status: Exempt
TIP category: Bridge

Federal Funds:	\$506,307
State Funds:	\$126,577
Total Funds:	\$632,884

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2006 total \$163.7 million: \$45.9 million in MassPike funds, \$95.6 million in Insurance Trust Fund revenue, and \$22.2 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of Insurance Trust Fund revenue. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: Insurance Trust Fund Revenue
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$0
State Funds:	\$95,600,000
Total Funds:	\$95,600,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 5: FY 2006 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2006 total \$163.7 million: \$45.9 million in MassPike funds, \$95.6 million in Insurance Trust Fund revenue, and \$22.2 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of MassPike funds. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: MassPike Funds
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$0
State Funds:	\$45,857,459
Total Funds:	\$45,857,459

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2006 total \$205.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2006 federal funding commitment includes approximately: \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$115.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal NHS funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: National Highway System
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$70,000,000
State Funds:	\$17,500,000
Total Funds:	\$87,500,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 5: FY 2006 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2006 total \$205.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2006 federal funding commitment includes approximately: \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$115.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Boston MPO Earmark funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Boston MPO Earmark
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$20,000,000
State Funds:	\$5,000,000
Total Funds:	\$25,000,000

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2006 total \$205.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2006 federal funding commitment includes approximately: \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$115.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Statewide funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$115,474,790
State Funds:	\$28,868,698
Total Funds:	\$144,343,488

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 5: FY 2006 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's non-federal aid Artery commitments for FY 2006 total \$163.7 million: \$45.9 million in MassPike funds, \$95.6 million in Insurance Trust Fund revenue, and \$22.2 million in Transportation Infrastructure Trust Fund revenue.

The funding programmed here represents only the allocation of Transportation Infrastructure Trust Fund revenue. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: Transportation Infrastructure Trust Fund
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$0
State Funds:	\$22,235,384
Total Funds:	\$22,235,384

Boston & Everett

Route 99 (Alford Street) Bridge

603370

Reconstruct the Route 99 (Alford Street) Bridge (B-16-29) over the Mystic River.

This project will be advertised for \$16 million in FY 2004 under the Advanced Construction Program and will be funded over a three-year period with federal funds. The amount programmed here represents the third-year funding.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$5,116,800
State Funds:	\$1,279,200
Total Funds:	\$6,396,000

Boston Region

Blue Line Modernization

Make improvements to the Blue Line, consistent with the MBTA's Capital Investment Program (CIP). This is a multi-year project that will extend beyond FY 2006.

Funds programmed for this project in FY 2004 to FY 2006 are approximately \$183 million. Funds programmed for this project in FY 2006 are approximately \$72.8 million and include approximately: \$19.4 million for Orient Heights Station, \$47.6 million for Maverick Station, and \$5.8 million for the Orient Heights Maintenance Facility.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5309/Rail Enhancement
Air Quality Status: Exempt
TIP category: State of Good Repair

Federal Funds:	\$58,251,189
State Funds:	\$14,562,797
Total Funds:	\$72,813,986

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 5: FY 2006 Project Information

Boston Region

Blue Line Vehicles

Purchase 94 Blue Line vehicles to enable the operation of six-car train sets and overhaul 24 current Blue Line vehicles for use on the Orange Line, consistent with the MBTA's Capital Investment Program (CIP). This is a multiyear project that will extend beyond FY 2006.

The funding allocation for this project for FY2005 and FY 2006 is approximately \$131 million.

Funding Program: Section 5307
Air Quality Status: Exempt
TIP category: State of Good Repair

Federal Funds:	\$66,432,783
State Funds:	\$16,608,094
Total Funds:	\$83,040,472

Boston Region

MBTA § 5307 Infrastructure Program

Make infrastructure improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for the Section 5307 Infrastructure Program from FY 2004 to FY 2006 totals approximately \$89.5 million. Funds programmed for this project in FY 2006 are \$ 17.2 million and include: \$12.4 million for the purchase of Emission Control Buses and \$4.8 million for the Lechmere Signal System.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration.

Funding Program: Section 5307
Air Quality Status: Exempt
TIP category: State of Good Repair

Federal Funds:	\$13,773,906
State Funds:	\$3,443,476
Total Funds:	\$17,217,382

Boston Region

MBTA § 5309 Infrastructure Program

Make infrastructure improvements to the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

The funding allocation for the Section 5309 Infrastructure Program from FY 2004 to FY 2006 totals approximately \$63.2 million. Funds programmed for this project in FY 2006 total approximately \$ 15.3 million including \$5.5 million for the Commuter Rail Top Deck Overhaul and \$9.75 million for the Worcester Cab Signalling.

These funding allocations are based upon the best information available as of July 24, 2003. The actual amount of funding requested for projects under this program will be determined by the MBTA as part of its request for the award of funds from the Federal Transit Administration

Funding Program: Section 5309/Rail Modernization
Air Quality Status: Exempt
TIP category: State of Good Repair

Federal Funds:	\$12,200,000
State Funds:	\$3,050,000
Total Funds:	\$15,250,000

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 5: FY 2006 Project Information

Boston Region

MBTA Automated Advanced Fare Collection System

Install an automated advanced fare collection system for the regional public transportation system, consistent with the MBTA's Capital Investment Program (CIP).

Funding Program: Section 5307
Air Quality Status: Exempt
TIP category: Enhancement

Federal Funds:	\$13,618,793
State Funds:	\$3,404,698
Total Funds:	\$17,023,491

Boston Region

MBTA Enhancement Program

The funding allocation for the MBTA Enhancement Program from FY 2004 to FY 2006 totals approximately \$3.7 million. Funds programmed for this project in FY 2006 are approximately \$1.2 million and will be used for bus shelters, the systemwide ITS program, rapid transit signage, and transit security.

Funding Program: Section 5307/Enhancement
Air Quality Status: Exempt
TIP category: Transit Enhancement

Federal Funds:	\$981,090
State Funds:	\$245,272
Total Funds:	\$1,226,362

Boston Region

Regional Transportation Demand Management Program

Provide funding for regional or local shuttles, the formation of Transportation Management Associations (TMAs), or other Transportation Demand Management (TDM) projects.

Funding Program: CMAQ
Air Quality Status: Off-Model
TIP category: Regional Mobility

Federal Funds:	\$200,000
State Funds:	\$50,000
Total Funds:	\$250,000

Boston Region

Suburban Mobility Improvement Program

Provide funding for programs and projects that improve the mobility of residents in areas currently unserved or underserved by transit. Potential services eligible for funding under this program include fixed-route shuttles serving markets not typically addressed (e.g., suburb-to-suburb, reverse commuting, etc.), employer-based van/carpool services, flexible-route shuttle services, and similar programs.

Funding Program: CMAQ
Air Quality Status: Off-Model
TIP category: Regional Mobility

Federal Funds:	\$400,000
State Funds:	\$100,000
Total Funds:	\$500,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 5: FY 2006 Project Information

Brookline **Beacon Street, Year 2** **601183**

The core project will make improvements to both the safety and functionality of the roadway, sidewalks, trolley and traffic signal systems that comprise this multi-modal, urban arterial. Enhancements provide pedestrian amenities and historic landscape features.

Funding Program: STP/Statewide + STP/Enhancement
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$5,591,146
State Funds:	\$1,397,786
Total Funds:	\$6,988,932

Canton, Randolph & Westwood **Rte. 128 Transportation Improvement Project, Year 2** **087800**

Add two general purpose lanes, one northbound and one southbound, to Route 128 in Canton, Randolph, and Westwood, from Route 24 in Randolph to south of the East Street Rotary in Westwood.

This project will be advertised for \$12 million in FY 2005 under the Advanced Construction Program and will be funded over a two-year period with federal funds. The amount programmed here represents the second-year funding.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 128 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: National Highway System
Air Quality Status: Model
TIP category: Major Highway

Federal Funds:	\$4,800,000
State Funds:	\$1,200,000
Total Funds:	\$6,000,000

Cohasset **Pedestrian Facilities** **602977**

Construct a historic walkway on the south side of South Main Street from Robert E. Jason Lane to Elm Street.

Funding Program: STP/Boston MPO
Air Quality Status: Model
TIP category: Bicycle/Pedestrian

Federal Funds:	\$132,720
State Funds:	\$33,180
Total Funds:	\$165,900

Concord **Monument Street Bridge** **601442**

Rehabilitate the Monument Street Bridge (C-19-13) over the Concord River.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$672,000
State Funds:	\$168,000
Total Funds:	\$840,000

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 5: FY 2006 Project Information

Concord & Lincoln

Rte. 2 (Crosby's Corner)

602984

Make safety and operations improvements to Route 2 from Bedford Road in Lincoln to Route 126 in Concord. This project includes the reconstruction of the intersection of Route 2 and Route 2A (Crosby's Corner).

This project will be advertised for \$12.6 million in FY 2006 under the Advanced Construction Program and will be funded over a two-year period with federal funds. The amount programmed here represents the first-year funding.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$4,320,000
State Funds:	\$1,080,000
Total Funds:	\$5,400,000

Dedham & Westwood

Rte. 1 & Rte 1A Bridges, Year 2

603162

Replace the Route 1 bridges (D-5-27 and D-5-46) and Route 1A bridges (D-5-44 and D-5-45) over Interstate 95 (Route 128). This project is part of the Route 128 Transportation Improvement Project.

This project will be advertised for \$15.5 million in FY 2005 under the Advanced Construction Program and will be funded over a three-year period with federal funds. The amount programmed here represents the second-year funding.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$5,240,000
State Funds:	\$1,310,000
Total Funds:	\$6,550,000

Everett, Malden, & Medford

TeleCom Blvd., Phase 2A

Construct 1/2 mile roadway and Malden River bridge from Corporation Way in Medford to Route 16 via Telecom Boulevard, Phase 1 and Santilli Highway. The HPP portion of this project is \$2,508,756 and the STP portion is \$3,605,397.

Funding Program: High Priority Project + STP/Boston MPO
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$6,114,153
State Funds:	\$1,528,538
Total Funds:	\$7,642,691

Framingham

Franklin Street

602046

This project will consist of pavement rehabilitation, traffic signal reconstruction at three locations, bridge railing repairs, sidewalk and wheelchair ramp installation, installation and/or resetting of granite curbing, minor drainage improvements, and associated signs and pavement markings.

Funding Program: STP/Boston MPO
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$3,072,000
State Funds:	\$768,000
Total Funds:	\$3,840,000

Chapter 5: FY 2006 Project Information

600981

Rehabilitate Union Street from Beaver Street to Washington Street.

Funding Program: STP/Boston MPO
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$3,168,000
State Funds:	\$792,000
Total Funds:	\$3,960,000

602929

Construct a 2-mile bicycle/pedestrian trail along an abandoned rail line from just west of Hopping Brook Road to Cross Street. This project is one section of the proposed Upper Charles Rail-Trail.

Funding Program: STP/Boston MPO
Air Quality Status: Model
TIP category: Bicycle/Pedestrian

Federal Funds:	\$360,000
State Funds:	\$90,000
Total Funds:	\$450,000

600703

Rehabilitate the Route 2 Bridge (L-10-9) over Interstate 95 (Route 128).

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$4,800,000
State Funds:	\$1,200,000
Total Funds:	\$6,000,000

602087

Improve safety and channelization on Route 114 (North Main Street). Work includes: improving the geometrics at the intersection of Forest Street and Essex Street; reconstructing approximately 2200 feet of Route 114; and installing sidewalks and landscaping.

Funding Program: STP/Boston MPO
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$1,152,000
State Funds:	\$288,000
Total Funds:	\$1,440,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 5: FY 2006 Project Information

Randolph to Wellesley

Rte. 128 Transportation Improvement Project (Design)

Fund bridge and roadway design work for the addition of two general purpose lanes, one northbound and one southbound, to Route 128 in Randolph, Canton, Westwood, Dedham, Needham and Wellesley.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 128 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: National Highway System
Air Quality Status: Exempt
TIP category: Major Highway

Federal Funds:	\$868,000
State Funds:	\$217,000
Total Funds:	\$1,085,000

Rockland

Route 3 Bridge

603021

Replace the deck on the Route 3 Bridge (R-8-4) over Route 228 (Hingham Street).

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$993,600
State Funds:	\$248,400
Total Funds:	\$1,242,000

Salem

Route 1A (Bridge Street)

602929

Reconstruct Route 1A (Bridge Street) from the Veterans' Memorial Bridge to Washington Street.

Funding Program: STP/Boston MPO
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$1,632,000
State Funds:	\$408,000
Total Funds:	\$2,040,000

Sharon

Route 1, three bridges

603622

Rehabilitate the Route 1 northbound bridges (S-9-9, S-9-10 & S,9-11) over Interstate 95 northbound and southbound.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$3,840,000
State Funds:	\$960,000
Total Funds:	\$4,800,000

**The FY 2004-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 5: FY 2006 Project Information

Waltham **Winter St. Bridge, Year 4** **601498**

Reconstruct the Winter Street Bridge (W-4-25) over Interstate 95 (Route 128) and reconfigure the associated interchange.

This project will be advertised for \$19 million in FY 2003 under the Advance Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the fourth-year funding including a 20% construction engineering contingency.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$4,704,000
State Funds:	\$1,176,000
Total Funds:	\$5,880,000

Wellesley **Rockland St. Bridge** **600776**

Replace the Rockland Street Bridge (W13-7) over Conrail.

Funding Program: Bridge
Air Quality Status: Model
TIP category: Bridge

Federal Funds:	\$763,200
State Funds:	\$190,800
Total Funds:	\$954,000

Weymouth **Rte. 18 , Year 2** **601630**

Widen Route 18 (Main Street) to four lanes from Route 3 to Route 139 in Abington.

This project will be advertised for \$16 million in FY 2005 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the second-year funding.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 18 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP category: Arterial Highway

Federal Funds:	\$3,200,000
State Funds:	\$800,000
Total Funds:	\$4,000,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 6: FY 2007 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2007 total \$205.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2007 federal funding commitment includes approximately: \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$115.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal NHS funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: National Highway System
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$70,000,000
State Funds:	\$17,500,000
Total Funds:	\$87,500,000

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2007 total \$205.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2007 federal funding commitment includes approximately: \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$115.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Boston MPO Earmark funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Boston MPO Earmark
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$20,000,000
State Funds:	\$5,000,000
Total Funds:	\$25,000,000

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 6: FY 2007 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2007 total \$205.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2007 federal funding commitment includes approximately: \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$115.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Statewide funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$115,474,790
State Funds:	\$28,868,698
Total Funds:	\$144,343,488

Concord & Lincoln

Rte. 2 (Crosby's Corner)

602984

Make safety and operations improvements to Route 2 from Bedford Road in Lincoln to Route 126 in Concord. This project includes the reconstruction of the intersection of Route 2 and Route 2A (Crosby's Corner).

This project will be advertised for \$12.6 million in FY 2006 under the Advanced Construction Program and will be funded over a two-year period with federal funds. The amount programmed here represents the second-year funding.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP Category: Arterial Highway

Federal Funds:	\$5,760,000
State Funds:	\$1,440,000
Total Funds:	\$7,200,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 6: FY 2007 Project Information

Dedham, Needham & Westwood

Rte. 128 Bridges, Year 1

603206

Replace the Interstate 95 (Rte. 128) northbound bridge and southbound bridge over Route 135 in Dedham; the Interstate 95 (Route 128) Bridge over the Charles River in Dedham and Needham; the Great Plain Avenue Bridge over Route 128 in Needham; and the Route 109 bridges over Interstate 95 (Route 128) northbound and southbound in Dedham and Westwood. This project is part of the Route 128 Transportation Improvement Project.

This project will be advertised for \$28 million in FY 2007 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the first-year funding.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 128 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: Bridge
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$8,000,000
State Funds:	\$2,000,000
Total Funds:	\$10,000,000

Dedham & Westwood

Rte. 1 & Rte 1A Bridges, Year 3

603162

Replace the Route 1 bridges (D-5-27 and D-5-46) and Route 1A bridges (D-5-44 and D-5-45) over Interstate 95 (Route 128). This project is part of the Route 128 Transportation Improvement Project.

This project will be advertised for \$15.5 million in FY 2005 under the Advanced Construction Program and will be funded over a three-year period with federal funds. The amount programmed here represents the third-year funding.

Funding Program: Bridge
Air Quality Status: Model
TIP Category: Bridge

Federal Funds:	\$5,240,000
State Funds:	\$1,310,000
Total Funds:	\$6,550,000

Everett, Malden, & Medford

TeleCom Blvd., Phase 2B

Construct 1/2 mile roadway and Malden River bridge from Corporation Way in Medford to Route 16 via Telecom Boulevard, Phase 1 and Santilli Highway.

Funding Program: STP/Boston MPO
Air Quality Status: Model
TIP Category: Arterial Highway

Federal Funds:	\$3,485,847
State Funds:	\$871,462
Total Funds:	\$4,357,309

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 6: FY 2007 Project Information

Needham & Wellesley

Rte. 128 Bridges, Year 1

603711

Replace or reconstruct five bridges in Needham: two railroad bridges over Route 128, the Kendrick Street Bridge over Route 128, the Highland Avenue Bridge over Route 128, and the Route 128 Bridge over Central Avenue. Work on this project will also include the widening of Route 128 between Kendrick Street in Needham and Route 9 in Wellesley. This project is part of the Route 128 Transportation Improvement Project.

This project will be advertised for \$39 million in FY 2007 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the first-year funding.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 128 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: National Highway System
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$4,800,000
State Funds:	\$1,200,000
Total Funds:	\$6,000,000

Randolph to Wellesley

Rte. 128 Transportation Improvement Project (Design)

Fund bridge and roadway design work for the addition of two general purpose lanes, one northbound and one southbound, to Route 128 in Randolph, Canton, Westwood, Dedham, Needham and Wellesley.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 128 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: National Highway System
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$280,000
State Funds:	\$70,000
Total Funds:	\$350,000

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 6: FY 2007 Project Information

Weymouth

Rte. 18, Year 3

601630

Widen Route 18 (Main Street) to four lanes from Route 3 to Route 139 in Abington.

This project will be advertised for \$16 million in FY 2005 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the third-year funding.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 18 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP Category: Arterial Highway

Federal Funds:	\$3,200,000
State Funds:	\$800,000
Total Funds:	\$4,000,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 7: FY 2008 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2008 total \$205.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2008 federal funding commitment includes approximately: \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$115.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal NHS funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: National Highway System
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$70,000,000
State Funds:	\$17,500,000
Total Funds:	\$87,500,000

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2008 total \$205.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2008 federal funding commitment includes approximately: \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$115.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Boston MPO Earmark funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Boston MPO Earmark
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$20,000,000
State Funds:	\$5,000,000
Total Funds:	\$25,000,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 7: FY 2008 Project Information

Boston

Central Artery Project

195001

Fund various contracts associated with the continuing reconstruction of the Central Artery.

The state's federal aid Artery commitments for FY 2008 total \$205.5 million for payments on Advanced Construction contracts and the beginning repayment of previously issued Grant Anticipation Notes (GANs). The FY 2008 federal funding commitment includes approximately: \$70 million in NHS funds, \$20 million in STP/Boston MPO Earmark funds, and \$115.5 million in STP/Statewide funds.

The funding programmed here represents only the allocation of federal STP/Statewide funds plus the required state match. This funding allocation is based upon the best information available as of July 24, 2003.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$115,474,790
State Funds:	\$28,868,698
Total Funds:	\$144,343,488

Dedham, Needham & Westwood

Rte. 128 Bridges, Year 2

603206

Replace the Interstate 95 (Route 128) northbound bridge and southbound bridge over Route 135 in Dedham; the Interstate 95 (Route 128) Bridge over the Charles River in Dedham and Needham; the Great Plain Avenue Bridge over Route 128 in Needham; and the Route 109 bridges over Interstate 95 (Route 128) northbound and southbound in Dedham and Westwood. This project is part of the Route 128 Transportation Improvement Project.

This project will be advertised for \$28 million in FY 2007 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the second-year funding.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 128 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: Bridge
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$6,400,000
State Funds:	\$1,600,000
Total Funds:	\$8,000,000

The FY 2003-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 7: FY 2008 Project Information

Needham & Wellesley

Rte. 128 Bridges, Year 2

603711

Replace or reconstruct five bridges in Needham: two railroad bridges over Route 128, the Kendrick Street Bridge over Route 128, the Highland Avenue Bridge over Route 128, and the Route 128 Bridge over Central Avenue. Work on this project will also include the widening of Route 128 between Kendrick Street in Needham and Route 9 in Wellesley. This project is part of the Route 128 Transportation Improvement Project.

This project will be advertised for \$39 million in FY 2007 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the second-year funding.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 128 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: National Highway System
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$11,200,000
State Funds:	\$2,800,000
Total Funds:	\$14,000,000

Randolph to Wellesley

Rte. 128 Transportation Improvement Project (Design)

Fund bridge and roadway design work for the addition of two general purpose lanes, one northbound and one southbound, to Route 128 in Randolph, Canton, Westwood, Dedham, Needham and Wellesley.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 128 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: National Highway System
Air Quality Status: Model
TIP Category: Major Highway

Federal Funds:	\$240,000
State Funds:	\$60,000
Total Funds:	\$300,000

**The FY 2003-2008 Transportation Improvement Program
and Air Quality Conformity Determination**

Chapter 7: FY 2008 Project Information

Weymouth

Rte. 18, Year 4

601630

Widen Route 18 (Main Street) to four lanes from Route 3 to Route 139 in Abington.

This project will be advertised for \$16 million in FY 2005 under the Advanced Construction Program and will be funded over a four-year period with federal funds. The amount programmed here represents the fourth-year funding.

These funding allocations are based upon MassHighway's estimate of the cost and schedule of the Route 18 project as of July 24, 2003. These figures are subject to change over time based upon the needs of the project and future consultations between the MPO and the state.

Funding Program: STP/Statewide
Air Quality Status: Model
TIP Category: Arterial Highway

Federal Funds:	\$4,000,000
State Funds:	\$1,000,000
Total Funds:	\$5,000,000

The FY 2004-2008 Transportation Improvement Program And Air Quality Conformity Determination

Chapter 8: The Determination of Air Quality Conformity

Background

The Commonwealth of Massachusetts is classified as serious nonattainment for ozone, and is divided into two nonattainment areas. The Eastern Massachusetts ozone nonattainment area includes Barnstable, Bristol, Dukes, Essex, Middlesex, Nantucket, Norfolk, Suffolk, and Worcester counties. Berkshire, Franklin, Hampden, and Hampshire counties comprise the Western Massachusetts ozone nonattainment area. With these classifications, the 1990 Clean Air Act Amendments (CAAA) required the Commonwealth to reduce its emissions of volatile organic compounds (VOCs) and nitrogen oxides (NOx), the two major precursors to ozone formation, to achieve attainment of the ozone standard by 1999 and beyond. The Boston Area carbon monoxide (CO) maintenance area* must maintain reduced emission levels of carbon monoxide. As of April 22, 2002, Waltham was re-designated to attainment for carbon monoxide, with an EPA-approved limited maintenance plan.

The CAAA also required Metropolitan Planning Organizations (MPOs) within nonattainment areas to perform conformity determinations prior to the approval of their Transportation Plans and Transportation Improvement Programs (TIPs). In 2000, all the regions conducted air quality analyses on their 2000 Regional Transportation Plans (RTPs), the purposes of which were to evaluate their RTP's air quality impacts on the State Implementation Plan (SIP). Conformity determinations were performed to ensure that all regionally significant projects were included in the RTPs.

On January 12, 2001, the Federal Highway Administration (FHWA) – in consultation with the Environmental Protection Agency (EPA Region 1) and the Massachusetts Department of Environmental Protection (DEP) – determined that the 13 Massachusetts RTPs for 2000 were in conformity with the Massachusetts State Implementation Plan. On June 18, 2002, FHWA, through the same process, redetermined conformity for the 10 Eastern Massachusetts MPOs, as the Boston MPO had completed an RTP update in March 2002.

Accordingly, the Executive Office of Transportation and Construction found the emission levels from the 2000 Regional Transportation Plan updates to be in conformance with the SIP. Each MPO has certified that all activities outlined in its Plan and its TIP:

- will not cause or contribute to any new violation of any standard in any area;
- will not increase the frequency or severity of any existing violation of and standard in any area; and,

* The Boston Area carbon monoxide maintenance area includes Boston, Cambridge, Chelsea, Everett, Malden, Medford, Quincy, Revere, and Somerville.

- will not delay the timely attainment of any standard or any required interim emission reductions or other milestones in any area.

Key elements of this 2003-2008 TIP related to air quality conformity are as follows:

- This TIP is financially constrained, and all projects in the TIP come from the conforming 2000-2025 Boston Region MPO Transportation Plan Update (RTP).
- All regionally significant projects included in the TIP were previously included in the air quality analysis completed for the conforming RTP. These projects are of the same design and concept as presented in the RTP.
- Because projects in the TIP come from the conforming RTP, *and* all regionally significant RTP projects for 2003 through 2008 (both Federal and Non-Federal Aid) are programmed in the TIP, the same air quality analysis used for the RTP can be used for the TIP.
- Therefore, this TIP, in combination with the TIPs from the other MPOs in the nonattainment area, demonstrates air quality conformity.

The regionally significant projects that were included in the 2000-2025 Boston Region MPO Transportation Plan Update's Conformity Determination are shown in Table 8-1.

Table 8-1
2000-2025 Transportation Plan Update
Future Needs Analysis: Action Scenarios

HIGHWAY PROJECTS	2003 BUILD	2010 BUILD	2020 BUILD	2025 BUILD
Central Artery	partial	X	X	X
Third Harbor Tunnel/Haul Road	X	X	X	X
Haul Road/Mass Ave/SE Expressway	X	X	X	X
Crosby Dr. (Bedford)		X	X	X
Middlesex Turnpike (Bedford & Burlington)		X	X	X
Rte. 128 Capacity Improvements (Beverly to Peabody)			X	X
Rte. 128 Capacity Improvements (Lynnfield to Reading)		X	X	X
Rte. 128 Additional Lanes (Randolph to Wellesley)		X	X	X
East Boston Haul Rd. (Boston)		X	X	X
Rte. 1A/Boardman St. Grade Separation (Boston)		X	X	X
Rutherford Avenue (Boston)		X	X	X
Double Stack Initiative (Boston to Newton)		X	X	X
Mass. Ave./Lafayette Square (Cambridge)	X	X	X	X
Cambridgeport Roadways (Cambridge)		X	X	X
I-93/I-95 Interchange (Canton)		X	X	X
I-95 (NB)/Dedham St. Ramp (Canton)		X	X	X
I-95 (SB)/Dedham St. Ramp (Canton)	X	X	X	X
Concord Rotary (Concord)		X	X	X
Rte. 2/Crosby's Corner (Concord)		X	X	X
Rte. 1/114 Corridor Improvements (Danvers & Peabody)		X	X	X
Telecom City Roadways (Everett, Malden, & Medford)	partial	X	X	X
Revere Beach Parkway (Everett, Medford, & Revere)		X	X	X
Rte. 126/Rte. 135 Grade Separation (Framingham)		X	X	X
Rte. 9/Rte. 126 Interchange (Framingham)		X	X	X
Double Stack Initiative (Framingham to Worcester)		X	X	X
Rte. 140 (Franklin)		X	X	X
Rte. 53 (Hanover)		X	X	X
Rte. 53/Rte. 228 (Hingham & Norwell)		X	X	X
Naval Air Station Access Improvements		X	X	X

Table 8-1 (cont.)

HIGHWAY PROJECTS (cont.)	2003 BUILD	2010 BUILD	2020 BUILD	2025 BUILD
I-495/I-290/Rte. 85 Interchange (Hudson & Marlborough)		X	X	X
Rte. 1 Improvements (Malden & Revere)		X	X	X
Rte. 20, Segments 1 & 2 (Marlborough)	X	X	X	X
Rte. 20, Segment 3 (Marlborough)		X	X	X
Double Stack Initiative (Natick & Wellesley)		X	X	X
Needham St./Highland Ave. (Needham & Newton)		X	X	X
Burgin Parkway (Quincy)		X	X	X
Quincy Center Concourse, Phase 1 (Quincy)	X	X	X	X
Quincy Center Concourse, Phase 2 (Quincy)		X	X	X
I-93/Rte. 129 Interchange (Reading & Wilmington)		X	X	X
I-93/I-95 Interchange (Reading & Woburn)		X	X	X
Mahoney Circle Grade Separation (Revere)		X	X	X
Rte. 1/Rte. 16 Interchange (Revere)		X	X	X
Rte. 1A/Rte. 16 Connection (Revere)		X	X	X
Boston St. (Salem)		X	X	X
Bridge St. (Salem)		X	X	X
Bridge St. Bypass (Salem)	X	X	X	X
I-93/Mystic Ave. Interchange (Somerville)		X	X	X
Rte. 18 (Weymouth)		X	X	X
Rte. 3 South Additional Lanes (Weymouth to Duxbury)	partial*	X	X	X
I-93/Ballardvale St. Interchange (Wilmington)		X	X	X
New Boston Street Bridge (Woburn)		X	X	X
Beverly-Salem Bridge	X	X	X	X
Route 62, Burlington	X	X	X	X
Route 38, Wilmington	X	X	X	X
Route 139 Widening	X	X	X	X
Blue Hill Avenue Signal Coordination	X	X	X	X
Brighton Avenue Signal Coordination	X	X	X	X
Marrett Road Signal Coordination	X	X	X	X
Route 3 North General Purpose Lane		X	X	X
I-495 Interchange between Route 9 and Route 20	X	X	X	X
I-93 Industriplex Interchange	X	X	X	X
Route 138 Widening (Canton)	X	X	X	X
Foxborough Route 1 Improvements	X	X	X	X
Route 9 Improvements (Wellesley)	X	X	X	X

* Includes the use of the breakdown lane during peak periods

Table 8-1 (cont.)

COMMUTER RAIL PROJECTS	2003 BUILD	2010 BUILD	2020 BUILD	2025 BUILD
New Bedford/Fall River Commuter Rail		X	X	X
Old Colony Commuter Rail, Phase I	X	X	X	X
Old Colony/Greenbush Commuter Rail	X	X	X	X
Fairmount Branch Improvements (Boston)		X	X	X
Newburyport	X	X	X	X
Worcester, Full Service	X	X	X	X
INTER-CITY RAIL PROJECTS				
AMTRAK Service to Portland, Maine	X	X	X	X
Northeast Corridor Electrification	X	X	X	X
RAPID TRANSIT PROJECTS				
Arborway Restoration (Boston)	X	X	X	X
Red Line/Blue Line Connector (Boston)			X	X
Medford Hillside Green Line (Boston, Medford, & Somerville)			X	X
Silver Line, Phase 3 (Boston)			X	X
Assembly Square Orange Line Station (Somerville)		X	X	X
Blue Line Platform Lengthening & Modernization		X	X	X
Mattapan Refurbishment	X	X	X	X
South Boston Piers Transitway, Phase I	X	X	X	X
Washington Street Transitway (Silver Line)	X	X	X	X
Airport Intermodal Transit Connector	X	X	X	X
HOV AND BUS PROJECTS				
Urban Ring Bus Service	X	X	X	X
Urban Ring, Phase 1 (Inner Core)		X	X	X
100 Additional Buses (Regionwide)		X	X	X
HOV Lanes on the Southeast Expressway	X	X	X	X
HOV Lanes on I-93 Mystic Avenue	X	X	X	X
INTERMODAL PROJECTS				
10,000 New Park and Ride Spaces since 1991	X	X	X	X
10,000 Additional Park and Ride Spaces	X	X	X	X
Park and Ride (Regionwide) (over the 20,000)	partial	X	X	X
North Station Improvements	X	X	X	X
South Station Transportation Center	X	X	X	X
Industriplex Intermodal Center	X	X	X	X
Rte 128 AMTRAK/Commuter Rail Station	X	X	X	X
Commuter Boat, Inner Harbor - from North Station	X	X	X	X
Russia Wharf	X	X	X	X

Timely Implementation of Transportation Control Measures

Transportation control measures (TCMs) have been required in the SIP in revisions submitted to EPA in 1979, 1982, and those submitted as mitigation measures for the construction of the Central Artery Project. Those TCMs included in the 1979 and 1982 submissions have been accomplished through construction or through implementation of ongoing programs. The only exceptions are the bus immersion heater program, the Newton Rider bus service, the private bus insurance discount concept, and the pedestrian malls in Lynn, Cambridge, and Needham. These TCMs have been substituted with other services. All of the projects have been included in past Boston MPO Transportation Plans and TIPs as recommended projects or projects requiring further study.

The status of all projects completed or ongoing as part of the Central Artery mitigation was updated in the summary of actions taken by EOTC, MassHighway, MBTA and other agencies to fulfill their commitments to the Artery (dated May 17, 2002). A list of those projects includes:

- Southeast Expressway High Occupancy Vehicle Lane
- HOV Lane on I-93 Mystic Avenue
- 20,000 New Park and Ride Spaces
- Ipswich Commuter Rail Extension to Newburyport
- Old Colony Commuter Rail Extension
- Framingham Commuter Rail Extension to Worcester
- Green Line Extension to Medford Hillside
- Red Line/Blue Line Connector
- South Boston Piers Transitway

The status of those TCMs that were submitted as SIP commitments as part of the Central Artery mitigation and not completed by the original schedule were updated under the Administrative Consent Order (ACO) signed by EOTC and the Executive Office of Environmental Affairs on September 1, 2000. The ACO reconciles and adjusts dates of completion. The conformity determination prepared for the 2000-2025 Transportation Plan Update includes all projects that are part of the ACO. The two transit TCM SIP commitment projects that have not been completed include the Greenbush Line of the Old Colony Commuter Rail Service and the Arborway Restoration Project. Substitutes for these projects were not yet approved, therefore, the Greenbush and Arborway projects were included in the RTP Update's conformity determination since any substitutes will require at least the same air quality benefits. Thus, the emissions from these projects have been accounted for.

DEP submitted to EPA their strategy of programs to show Reasonable Further Progress of a 15% reduction of VOCs in 1996 and the further 9% reduction of NO_x toward attainment of the National Ambient Air Quality Standards (NAAQS) for ozone in 1999 and beyond. Within that strategy, there are no specific TCM projects. They do call for traffic flow improvements to reduce congestion and, therefore, improve air quality. Other transportation-related projects that have been included in the SIP control strategy are listed below:

- Enhanced Inspection and Maintenance Program
- California Low Emission Vehicle Program
- Reformulated Gasoline for On and Off-Road Vehicles
- Stage II Vapor Recovery at Gasoline Refueling Stations
- Tier I Federal Vehicle Standards

Air Quality Conformity Analysis

On October 1, 1998, DEP submitted to EPA a technical correction to the Massachusetts SIP for Ozone, which included a 2003 mobile source emission budget. This budget was found adequate for conformity purposes by EPA on February 19, 1999, and was used in the conformity determination of the Boston MPO Regional Transportation Plan Update approved on June 18, 2002.

The conformity test is to show consistency with the emissions budgets set forth in the SIP. Specific information regarding the analysis methods, latest planning assumptions, and consultation procedures are all detailed in the 2000-2025 RTP Update. The emissions from the following MPOs have been combined to show conformity with the SIP for the Eastern Massachusetts Nonattainment Area:

- Cape Cod MPO
- Central Massachusetts MPO
- Merrimack Valley MPO
- Boston MPO
- Montachusett Region MPO
- Northern Middlesex MPO
- Old Colony MPO
- Southeastern Region MPO
- Martha's Vineyard Commission*
- Nantucket Planning and Economic Development Commission*

On behalf of the Executive Office of Transportation and Construction, MassHighway compiled the emissions for VOC and NO_x from all MPOs. The VOC mobile source emission budget for 2003 for the Eastern Massachusetts Nonattainment Area has been set at 117.118 tons per summer day and the 2003 mobile source budget for NO_x is 243.328 tons per summer day. As shown in Tables 8-2 and 8-3, the results of the air quality analysis demonstrate that the VOC and NO_x emissions from all Action scenarios are less than the VOC and NO_x emissions budgets for the Eastern Massachusetts Nonattainment Area. A 2010 carbon monoxide motor vehicle emission budget was established for the Boston CO maintenance area and was set at 228.33 tons of carbon monoxide per winter day.

Emissions calculated for this CO maintenance area are included in Table 8-4.

* These regions do not contain any urbanized areas, but are considered to be MPOs for planning purposes.

TABLE 8-2
VOC Emissions Estimates for the Eastern Massachusetts Ozone Nonattainment Area
(all emissions in tons per summer day)

Year	Boston MPO Action Emissions	Eastern MA Action Emissions	Budget	Difference (Action – Budget)
1997	119.176	219.059	n/a	n/a
2003	56.610	114.030	117.118	-3.088
2010	50.875	104.224	117.118	-12.894
2020	53.164	110.006	117.118	-7.112
2025	52.311	112.021	117.118	-5.097

TABLE 8-3
NOx Emissions Estimates for the Eastern Massachusetts Ozone Nonattainment Area
(all emissions in tons per summer day)

Year	Boston MPO Action Emissions	Eastern MA Action Emissions	Budget	Difference (Action – Budget)
1997	179.858	341.458	n/a	n/a
2003	111.297	234.295	243.328	-9.033
2010	105.873	224.211	243.328	-19.117
2020	110.579	234.619	243.328	-8.709
2025	110.196	237.686	243.328	-5.642

TABLE 8-4
Winter Carbon Monoxide Emissions Estimates from the CO Maintenance Area
for the Nine Cities in the Boston Area
(all emissions in tons per winter day)

Year	Action Emissions	SIP Emissions Projections	Difference (Action – Budget)
1993	305.43	n/a	n/a
2003	165.13	226.00	-60.87
2005	164.80	217.53	-52.73
2010	163.97	228.33	-64.36
2020	162.31	228.33	-66.02
2025	161.48	228.33	-66.85

In summary, this TIP is derived from a conforming regional transportation plan, and the conformity determination has been prepared in accordance with EPA's final conformity regulations. The Boston MPO has found the emission levels from the FY 2003-2008 TIP, in combination with the emission levels from the other MPOs in its nonattainment area, demonstrate conformity with the SIP. Therefore, the implementation of the FY 2003-2008 TIP is consistent with the air quality goals in the Massachusetts SIP.

The FY 2004-2008 Transportation Improvement Program and Air Quality Conformity Determination

Chapter 9: Financial Constraint

The financial constraint of the Transportation Improvement Program (TIP) must satisfy three requirements:

- the transit and the highway program must be financially constrained to projections of available federal aid;
- the non-federal aid highway program must be constrained to state targets of non-federal aid; and
- the Central Artery Project must be constrained to 50% of the federal aid available statewide.

As shown in the tables below, the FY 2004-2008 TIP complies with all of these requirements.

**Table 9-1: The Federal Aid Program
(Federal Funds plus Matching Funds)**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>
<i>Transit Program</i>			
§ 5307 Authorization	\$111,353,359	\$118,507,707	\$118,507,707
§ 5307 Program	\$111,353,359	\$118,507,707	\$118,507,707
§ 5309 Authorization	\$88,063,986	\$88,063,986	\$88,063,986
§ 5309 Program	\$88,063,986	\$88,063,986	\$88,063,986
<i>Non-Artery Highway Program (Exclusive of High Priority Project Funds)</i>			
Highway Obligation	\$44,389,092	\$27,657,619	\$47,879,617
Highway Program	\$44,729,717	\$27,713,713	\$47,826,579

Table 9-2: The Non-Federal Aid Highway Program

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>
Bridge Target	\$13,199,040	N/A	N/A
Bridge Program	\$13,199,040	N/A	N/A

**Table 9-3: The Central Artery Project
(Federal Funds Only)**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>
Obligation Authority	\$450,949,580	\$450,949,580	\$450,949,580	\$450,949,580	\$450,949,580
Artery Share (50%)	\$225,474,790	\$225,474,790	\$225,474,790	\$225,474,790	\$225,474,790
less Artery Swap ¹	\$42,000,000	N/A	\$20,000,000	\$20,000,000	\$20,000,000
Artery Share	\$183,474,790	\$225,474,790	\$205,474,790	\$205,474,790	\$205,474,790
Artery TIP Program ²	\$185,474,790	\$225,474,790	\$205,474,790	\$205,474,790	\$205,474,790

¹ The amounts reflected as Artery Swaps represent transfers of federal aid obligation authority for a like amount of non-federal aid funding to help the Artery manage its cash flow needs.

² The overage in FY 2004 will be corrected through the deobligation of federal funds under existing contracts.